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October 25, 2016

County of San Bernardino
RES-D-Project Management Division
385 North Arrowhead Avenue, Third Floor
San Bernardino, California 92415
Attention: Mr. Gabriel D. Martin, Project Manager II

Job No. G16-049-3

Dear Mr. Martin:

This letter transmits six copies of the Geotechnical Investigation and Infiltration Testing report prepared for the proposed Department of Behavioral Health crisis stabilization unit facility (Project No. 7N25), located at 14677 Merrill Avenue, Fontana, California.

We appreciate this opportunity to provide geotechnical services for this project. If you have questions or comments concerning this report, please contact us at your convenience.

Respectfully submitted,
C.H.J., INCORPORATED


George Battey III, P.E.
President

GB:lb

Distribution: County of San Bernardino (6 and email)



**GEOTECHNICAL INVESTIGATION
AND INFILTRATION TESTING
DEPARTMENT OF BEHAVIORAL HEALTH
CRISIS STABILIZATION UNIT FACILITY
(PROJECT NO. 7N25)
FONTANA, CALIFORNIA
PREPARED FOR
COUNTY OF SAN BERNARDINO
JOB NO. G16-049-3**



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October 25, 2016

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RES-D-Project Management Division
385 North Arrowhead Avenue, Third Floor
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Attention: Mr. Gabriel D. Martin, Project Manager II

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Dear Mr. Martin:

Attached herewith is the Geotechnical Investigation and Infiltration Testing report prepared for the proposed Department of Behavioral Health crisis stabilization unit facility (Project No. 7N25), located at 14677 Merrill Avenue, Fontana, California.

This report was based upon a scope of services generally outlined in our proposal, dated September 7, 2016, and other written and verbal communications.

We appreciate this opportunity to provide geotechnical services for this project. If you have questions or comments concerning this report, please contact this firm at your convenience.

Respectfully submitted,
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AND INFILTRATION TESTING
DEPARTMENT OF BEHAVIORAL HEALTH
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INTRODUCTION

During October 2016, a geotechnical investigation proposed crisis stabilization unit facility (Project No. 7N25), located at the address of 14677 Merrill Avenue, approximately 175 feet west of the intersection of Merrill Avenue and Redwood Avenue in Fontana, California, was performed by this firm for the Department of Behavioral Health. The purposes of this investigation were to explore and evaluate the geotechnical engineering conditions at the subject site and to provide appropriate geotechnical engineering recommendations for design and construction of the proposed structure and associated improvements.

The approximate location of the site is shown on the attached Index Map (Enclosure "A-1"). A site plan prepared by TR Design Group, showing the layout of the proposed developments, was furnished for our use. The site plan was reviewed and utilized as a base map for our Site Plan (Enclosure "A-2").

The results of our investigation, together with our conclusions and recommendations, are presented in this report.

SCOPE OF SERVICES

The scope of services provided during this geotechnical investigation included the following:

- Review of published and unpublished literature and maps
- Examination of aerial images flown between 1938 and 2016



- Field reconnaissance of the site and surrounding area
- Logging and sampling of four exploratory borings for testing and evaluation
- Performing two double-ring infiltrometer tests in general conformance with ASTM D3385
- Laboratory testing on selected samples
- Evaluation of the geotechnical engineering/geologic data to develop site-specific recommendations for site grading, foundation design, preliminary pavement structural section design and mitigation of potential geologic constraints, if encountered
- Preparation of this report summarizing our findings, professional opinions and recommendations for the geotechnical aspects of project design and construction

PROJECT CONSIDERATIONS

Information furnished to this office indicates that a new, approximately 11,000-square-foot crisis stabilization unit facility will be developed at the subject site. The development will include parking stalls, landscaping and associated infrastructure. A one-story structure of wood frame and stucco or reinforced masonry construction imposing relatively light loads on the supporting soils is anticipated. The site is clear of any existing buildings and is currently a vacant lot.

A project grading plan was not available at the time of our investigation. However, observation of site topography and of adjacent improvements indicates that development of this site will entail minimal cuts and fills to an estimated maximum of 5 feet. The geotechnical engineer should review the final project grading plan to confirm that recommendations provided in this report have been implemented.



SITE DESCRIPTION

The site is located in Fontana, California, south of Merrill Avenue and between Cherry Avenue to the west and Redwood Avenue to the east. At the time of our investigation, the site consisted of a mix of undeveloped land and gravel-paved areas in poor condition. Most of the site was covered with light growth of annual grasses and weeds. The site was relatively flat and planar with a slight slope to the south. Residential structures were located east of the site. Commercial buildings were located to the north, south and west of the site.

Buried utilities are anticipated to be present within the site area.

Examination of aerial imagery indicates that the site has undergone multiple changes in the last approximately 80 years. In the 1938 aerial image, the site was generally undeveloped land with a residential structure located at the north portion of the site, adjacent to Merrill Avenue. At that time the areas to the east and west of the site were also undeveloped land, while the areas to the north and south of the site were developed agriculturally. At the time of the 1948 aerial image, the site was developed with a larger residential structure in the northern portion of the site but was otherwise still undeveloped. Residential structures had been built east of the site. In the 1959 and 1966 aerial images, the site consisted of multiple structures in both the north and center portions of the site. Several dirt roads crossed the site. By the time of the 1994 aerial image, the structures had been removed from the site. Commercial structures were located to the west of the site, and a mix of commercial and residential structures were located to the east of the site. The areas north and south of the site were undeveloped. The site remained in this condition until the time of the 2009 aerial image, when it was covered with gravel paving. The gravel paving deteriorated into its current condition between the 2009 image and the 2016 aerial image.

Evidence of geologic hazards or flooding was not noted in the aerial imagery examined.



FIELD INVESTIGATION

The soil conditions underlying the subject site were explored by means of four exploratory borings drilled to a maximum depth of 51-1/2 feet below the existing ground surface (bgs) with a truck-mounted CME 75 drill rig equipped for soil sampling and two test pits excavated to a depth of 5 feet with a rubber-tire backhoe. The approximate locations of our exploratory borings and test pits are indicated on the attached Site Plan (Enclosure "A-2").

Continuous logs of the subsurface conditions, as encountered within the exploratory borings, were recorded at the time of drilling by a geologist from this firm. Both a standard penetration test (SPT) sampler (2-inch outer diameter and 1-3/8-inch inner diameter) and a ring sampler (3-1/4-inch outer diameter and 2-3/8-inch inner diameter) were utilized in our investigation. The penetration resistance was recorded on the boring logs as the number of hammer blows used to advance the sampler in 6-inch increments (or less if noted). The samplers were driven with an automatic hammer that drops a 140-pound weight 30 inches for each blow. After the required seating, samplers are advanced up to 18 inches, providing up to three sets of blowcounts at each sampling interval. The recorded blows are raw numbers without any corrections for hammer type (automatic vs. manual cathead) or sampler size (ring sampler vs. standard penetration test sampler). Both relatively undisturbed and bulk samples of typical soil types obtained were returned to the laboratory in sealed containers for testing and evaluation.

The exploratory boring logs, together with the uncorrected blowcount data and in-place density data, are presented in Appendix "B". The stratification lines presented on the boring logs represent approximate boundaries between soil types, which may include gradual transitions.

At the completion of the field investigation, all borings and test pits were backfilled to the initial grade with soils derived from the drilling or excavation and tamped using the excavation equipment. This backfilling operation is expected to compact the boring or test pit to a density approximating that of the existing soils. If backfill material in addition to the excavated material was necessary to



complete the backfill, then such material was secured and utilized in the backfilling operation. It is possible that some settlement of the backfilled material may occur. Our firm does not monitor boring locations for settlement. This is deemed to be, and is accepted to be, the responsibility of our client. If the client observes settlement, then this firm should be notified.

LABORATORY INVESTIGATION

Included in our laboratory testing program were field moisture content tests on all samples returned to the laboratory and field dry density tests on all relatively undisturbed samples. The results are included on the boring logs.

An optimum moisture content - maximum dry density relationship was established for a typical soil type in order to evaluate the relative compaction during construction. Remolded direct shear testing was performed to provide shear strength parameters for bearing capacity and earth pressure evaluations. Sieve analysis and No. 200 wash were performed for soil classification purposes. R-value and sand equivalent testing was performed on representative soils for preliminary pavement design. A selected sample of material was delivered to HDR, Inc. for preliminary corrosivity analysis.

Laboratory test results appear in Appendix "C". Soil classifications provided in our geotechnical investigation are in general accordance with the Unified Soil Classification System (USCS).

SITE GEOLOGY AND SUBSURFACE SOIL CONDITIONS

The site is located on an alluvial fan emanating from Lytle Creek in the northwest portion of the San Bernardino Valley, a portion of the Peninsular Ranges Geomorphic Province. The San Bernardino Valley is formed by a structurally down-dropped block of crystalline bedrock material overlain by a thick accumulation of alluvium composed of floodplain and alluvial-fan deposits derived from highlands to the south, east, north and northwest. The west portion of the San Bernardino Valley is



bounded on the north by the San Gabriel Mountains of the Transverse Ranges. The Lytle Creek fan is composed of relatively coarse-grained alluvial deposits in the vicinity of the site.

The site is underlain by young alluvial fan deposits of Lytle Creek (Morton, 2003). As encountered in our explorations, the subsurface soils generally consisted of dense to very dense gravel (GP, GP-GM, GW-GM) and medium dense to very dense silty sand and sand (SM, SP-SM).

Neither bedrock nor groundwater was encountered within the exploratory borings to the maximum depth of approximately 51-1/2 feet bgs. Slight to moderate caving was observed in the exploratory borings upon removal of the augers.

Although fill was not encountered in our exploratory borings, localized areas of fill may be encountered during grading operations.

More detailed descriptions of the subsurface soil conditions encountered are included within the exploratory boring logs (Appendix "B").

FAULT RUPTURE HAZARD

The site is not located within an Alquist-Priolo (AP) Earthquake Fault Zone established by the State of California to mitigate fault rupture hazard to human-occupancy structures. The closest AP zone, established for the Cucamonga fault, is located approximately 5-1/4 miles north of the site.

As depicted by the City of Fontana (2003), the Fontana seismic zone is approximately 1 mile southeast of the site. This seismic zone consists of several faults without surface expression that are inferred from water well data, geophysical data and microseismicity (Dutcher and Garrett, 1963; Fife and others, 1976; Ziony and Yerkes, 1985). The site is not located in a fault hazard zone according to the County of San Bernardino General Plan (2010). The potential for surface faulting to occur within the site is considered low.



2013 CALIFORNIA BUILDING CODE - SEISMIC PARAMETERS

Based on the geologic setting and anticipated earthwork for construction of the proposed project, the soils underlying the site are classified as Site Class "D, stiff soil profile", according to the 2013 California Building Code (CBC). The seismic parameters according to 2013 CBC are summarized in the following table.

2013 CBC - Seismic Parameters	
Mapped Spectral Acceleration Parameters	$S_s = 1.50$ and $S_1 = 0.60$
Site Coefficients	$F_a = 1.0$ and $F_v = 1.5$
Adjusted Maximum Considered Earthquake Spectral Response Parameters	$S_{MS} = 1.50$ and $S_{M1} = 0.90$
Design Spectral Acceleration Parameters	$S_{DS} = 1.00$ and $S_{D1} = 0.60$
Geometric Mean Peak Ground Acceleration (PGA_m)	0.50g
De-aggregated Magnitude	6.56

GROUNDWATER AND LIQUEFACTION POTENTIAL

The site is located in section 14 of Township 1 South, Range 6 West, in the Chino sub-basin of the Upper Santa Ana Valley Groundwater Basin. Groundwater data were reviewed in order to estimate the historic groundwater conditions for the site. Depths to groundwater from a nearby well (01S06W12P001S) measured by the California Department of Water Resources (DWR, 2016), as well as regional contour data, are summarized in the following table:



Summary of Data – Well No. 01S06W12P001S				
Measuring Point Elevation (feet)	Date	Depth to Water (feet)	Location	Data Source
1,213.75	10/25/1925	385.2	1 mile E	DWR, 2016
	12/4/1969	391.4		
	9/19/1997	462.0		
	3/1/2016	490.0		
Groundwater Contour Map				
Contour Map	1936	385	--	Dutcher & Garrett, 1963
	1945	385		
	1951	385		
	1973-1979	400	--	Carson & Matti, 1985
	1904	160	--	Mendenhall, 1905

Groundwater was not encountered within the depth of the current borings. Historic high groundwater level for the site is estimated at 160 feet bgs.

According to the City of Fontana General Plan (2003), the site is in a zone identified as having a low potential for liquefaction. According to the County of San Bernardino General Plan (2010), the site is not located within an area identified as having a potential for liquefaction.

Liquefaction is a process in which strong ground shaking causes saturated soils to lose shear strength and behave as a fluid, potentially resulting in near-surface and surface ground failure. Ground failure associated with liquefaction can result in severe damage to structures. The geologic conditions for increased susceptibility to liquefaction are: 1) the presence of shallow groundwater (generally less



than 50 feet in depth), 2) the presence of unconsolidated sandy alluvium, typically Holocene age, and 3) strong ground shaking. All three of these conditions must be present for liquefaction to occur.

Based on our preliminary analysis and historic groundwater conditions, the potential for liquefaction to occur at the site is considered low.

SEISMIC SETTLEMENT

Severe seismic shaking may cause dry and non-saturated sands to densify, resulting in settlement expressed at the ground surface. Seismic settlement in dry soils generally occurs in loose sands and silty sands, with cohesive soils being less prone to significant settlement.

The subsurface soils generally consisted of dense to very dense gravel (GP, GP-GM, GW-GM) and medium dense to very dense silty sand and sand (SM, SP-SM).

The seismic settlement was evaluated for a representative soil profile using Exploratory Boring No. 2. Using the method outlined by Pradel (1998), calculations were performed to estimate the maximum and differential settlements to be anticipated as a result of a major seismic event. As input into our calculations, a deaggregated modal moment magnitude of 6.56 and an acceleration of 0.50g were utilized. The results indicate that seismic settlement should be considered negligible. The seismic settlement calculation is provided in Appendix "D".

HYDROCONSOLIDATION

Based on the relatively dense nature of the underlying near-surface soils encountered in our investigation and the low potential for full saturation of the soil layers, it is our opinion that the potential for hydrocollapse settlement at the site is low.



STATIC SETTLEMENT

Potential static settlement was evaluated utilizing field and laboratory data and foundation load assumptions. The calculations indicate total static settlement of less than 1 inch beneath foundations. Based on the uniformity of the materials encountered, differential settlement is anticipated to be on the order of 1/2 inch in 40 feet. Static settlement is expected to occur during construction or shortly after.

INFILTRATION TESTING

Two double-ring infiltrometer tests were performed at locations selected by a representative of the County. To evaluate the infiltration potential of the site soils, two test pits were excavated to approximately 5 feet bgs with a rubber-tire backhoe. The tests were performed in general conformance with ASTM D3385. During the test period, the water in the inner and annular rings was maintained at a constant level using a float valve and individual water source for each ring. The volume of water added to the inner and annular rings was measured using graduated cylinders and recorded at timed intervals. The graduated cylinder corresponding to the inner ring is readable to increments of 25 milliliters.

The data collected were used to calculate the measured infiltration rate of the soil. Each infiltration test was performed until a steady-state infiltration velocity was reached. The steady-state infiltration velocity is presented as the measured infiltration rate.

Sieve analysis of the soils at the depth of the infiltrometer tests indicated the soils generally consist of poorly graded gravel with silt and sand (GP-GM) and poorly graded gravel with sand (GP).

The field infiltration rates obtained are presented in the following table and do not include safety factors.



Infiltration Rate				
Test Number	Depth (ft.)	Soil Type	cm. / hr.	in. / hr.
DR-1	5	GP-GM	50.0	19.7
DR-2	5	GP	12.2	4.8

The infiltration rates presented above are based on field test results utilizing clear water. Infiltration rates can be affected by silt buildup, debris, degree of soil saturation, site variability and other factors. The rates were obtained at specific locations, are representative of the locations tested and may not be representative of the entire site. The rates presented above are measured field rates and should NOT be considered design infiltration rates. The designer of individual basins should consider possible site variability in their design. Application of an appropriate safety factor may be required by the authorizing agency to account for subsoil inconsistencies, possible compaction related to site grading and potential silting of the percolating soils, depending on the application.

FLOODING AND EROSION

The site is located within the 100-year flood zone as designated by the City of Fontana (2003) and the County of San Bernardino (2010). The Federal Emergency Management Agency (2016) has designated the site as "Zone X: Other Flood Areas". The site should be considered to be within the 100-year flood zone. A more accurate determination of the flood hazard to the site and the adequacy of existing flood and drainage improvements near the site is not within the scope of this investigation.

SLOPE STABILITY

No significant slopes are planned or currently exist at the site; therefore, slope stability is not considered to pose a hazard at this site. Excavation of temporary slopes during construction should conform to regulations regarding trench configuration and worker safety.



EXPANSION POTENTIAL

Materials encountered during this investigation were generally granular and considered to be non-critically expansive. The need for specialized construction procedures intended to specifically resist expansive soil forces is not anticipated at this time. Requirements for reinforcing steel to satisfy structural criteria are not affected by this recommendation. Additional evaluation of soils for expansion potential should be conducted by the geotechnical engineer during the grading operation.

CONCLUSIONS

On the basis of our field and laboratory investigations, it is the opinion of this firm that the proposed development is feasible from geotechnical engineering and engineering geologic standpoints, provided the recommendations contained in this report are implemented during grading and construction.

The subsurface soils generally consisted of dense to very dense gravel (GP, GP-GM, GW-GM) and medium dense to very dense silty sand and sand (SM, SP-SM).

Slight to moderate caving was experienced within the exploratory borings utilized for this investigation. Trenches, larger-diameter borings or excavations that remain open for longer periods of time may be subject to more significant caving.

Although fill was not encountered in our exploratory borings, localized areas of fill may be encountered during grading operations.

The site is not located within an Alquist-Priolo Earthquake Fault Zone established by the State of California to mitigate fault rupture hazard to human-occupancy structures.

Moderate to severe seismic shaking can be expected at the site.



Groundwater was not encountered within the exploratory borings at the site. Based on historic groundwater conditions, a groundwater depth of 160 feet was utilized to analyze the potential for liquefaction.

The potential for liquefaction is considered low at the site. Settlement resulting from seismic shaking of dry to partially saturated sands is considered negligible.

Based on the low possibility of full saturation of the upper soil layers, it is our opinion that hydrocollapse settlement of the site can be considered negligible.

Static settlement from anticipated foundation loading may result in a total settlement of less than 1 inch and a differential settlement of approximately 1/2 inch in 40 feet.

The relatively planar topography at the site precludes the potential for slope instability.

The on-site materials are generally granular and are considered to be non-critically expansive.

Based upon our field investigation and test data, it is our opinion that the upper native soils and any localized fill that may be encountered during grading will not, in their present condition, provide uniform or adequate support for the proposed structure. Blowcounts and density testing performed on relatively undisturbed samples indicate that the soils encountered were generally in a medium dense to very dense state.

Because of site conditions, it is our recommendation to remove the upper 36 inches of soil in all building areas and the upper 12 inches of soil in all pavement areas. Further subexcavation may be necessary depending on the densities of the underlying soils. It is our recommendation that the building areas be subexcavated as necessary and recompacted to provide a compacted fill mat beneath footings and slabs. A compacted fill mat will provide a dense, uniform, high-strength soil layer to distribute the foundation loads over the underlying soils. Conventional spread foundations,



either individual spread footings and/or continuous wall footings, may be utilized in conjunction with a compacted fill mat.

Based on the classification, density and lack of significant soil cementation encountered in exploratory borings placed throughout the site, site grading and utility trenching are expected to be feasible with conventional heavy grading and trenching equipment, respectively.

RECOMMENDATIONS

GENERAL SITE GRADING:

It is imperative that no clearing and/or grading operations be performed without the presence of a representative of the geotechnical engineer. An on-site pre-job meeting with the County, the contractor and the geotechnical engineer should occur prior to all grading-related operations. Operations undertaken at the site without the geotechnical engineer present may result in exclusions of affected areas from the final compaction report for the project.

Grading of the subject site should be performed, at a minimum, in accordance with these recommendations and with applicable portions of the CBC. The following recommendations are presented for your assistance in establishing proper grading criteria.

INITIAL SITE PREPARATION:

All areas to be graded should be stripped or cleaned of significant vegetation, rocks greater than 8 inches in largest dimension and other deleterious materials. These materials should be removed from the site for disposal. The cleaned soils may be reused as properly compacted fill. If encountered, existing utility lines should be traced, removed and rerouted from areas to be graded.

Cavities created by removal of subsurface obstructions, such as structures, individual effluent disposal systems and trees, should be thoroughly cleaned of loose soil, organic matter and other



deleterious materials, shaped to provide access for construction equipment, and backfilled as recommended for site fill.

MINIMUM MANDATORY REMOVAL AND RECOMPACTION OF EXISTING SOILS:

All building areas should have at least the upper 36 inches of existing soils removed, and all pavement areas should have at least the upper 12 inches of existing soils removed. The open excavation bottoms should be observed by our engineering geologist to verify and document in writing that all loose native soils or undocumented fill is removed prior to refilling with properly tested and documented compacted fill. The removed and cleaned soils may be reused as properly compacted fill.

Further subexcavation may be necessary depending on the conditions of the underlying soils. The actual depth of removal should be determined at the time of grading by the project geotechnical engineer/geologist. The determination will be based on soil conditions exposed within the excavations.

Compaction tests may be taken in the removal bottom areas where appropriate to provide in-place moisture/density data for potential relative compaction evaluations and to help support and document the engineering geologist's decision. As such, all building areas should have any loose native soils, undocumented fill, topsoil or other unsuitable materials removed and replaced with properly compacted fill.

PREPARATION OF FILL AREAS:

Prior to placing fill, and after the mandatory subexcavation operation with all loose native and/or undocumented fill removed, the surfaces of all areas to receive fill should be scarified to a depth of 6 inches or more. The scarified soils should be brought to near optimum moisture content and recompacted to a minimum relative compaction of 90 percent in accordance with ASTM D1557.



PREPARATION OF FOOTING AREAS:

All footings should rest upon at least 12 inches of properly compacted fill material. In areas where the required thickness of compacted fill is not accomplished by site rough grading, mandatory subexcavation operation and the undocumented fill removal, the footing areas should be further subexcavated to a depth of 12 inches or more below the proposed footing base grade. The required overexcavation should extend at least 5 feet laterally beyond the footing lines, where reasonably possible. In instances where the 5-foot lateral overexcavation may not be accomplished, this firm should be contacted to evaluate its effect. The bottom of this excavation should then be scarified to a depth of at least 6 inches, brought to near optimum moisture content and recompacted to a minimum of 90 percent relative compaction in accordance with ASTM D1557 prior to refilling the excavation to the required grade as properly compacted fill.

Foundation concrete should be placed in neat excavations with vertical sides, or the concrete should be formed and the excavations properly backfilled as recommended for compacted fill.

COMPACTED FILLS:

The on-site soils should provide adequate quality fill material provided they are free from organic matter and other deleterious materials. Unless approved by the geotechnical engineer, rock or similar irreducible material with a maximum dimension greater than 8 inches should not be buried or placed in fills.

If utilized, import fill should be inorganic, non-expansive, granular soil free from rocks or lumps greater than 6 inches in maximum dimension. The contractor shall notify the geotechnical engineer of import sources sufficiently ahead of their use so that the sources can be observed and approved as to the physical characteristic of the import material. For all import material, the contractor shall also submit current verified reports from a recognized analytical laboratory indicating that the import has a "not applicable" (Class S0) potential for sulfate attack based upon current American Concrete Institute (ACI) criteria and is not corrosive to ferrous metal and copper. The reports shall be



accompanied by a written statement from the contractor that the laboratory test results are representative of all import material that will be brought to the job.

Fill should be spread in near-horizontal layers, approximately 8 inches thick. Thicker lifts may be approved by the geotechnical engineer if testing indicates that the grading procedures are adequate to achieve the required compaction. Each lift should be spread evenly, thoroughly mixed during spreading to attain uniformity of the material and moisture in each layer, brought to near optimum moisture content and compacted to a minimum relative compaction of 90 percent in accordance with ASTM D1557.

FOUNDATION DESIGN:

If the site is prepared as recommended, the proposed development may be safely founded on conventional spread foundations, either individual spread footings and/or continuous wall footings, bearing on a minimum of 12 inches of compacted fill. Footings should be a minimum of 12 inches wide and should be established at a minimum depth of 12 inches below lowest adjacent final subgrade level. For the minimum width and depth, footings may be designed for a maximum safe soil bearing pressure of 1,600 pounds per square foot (psf) for dead plus live loads. This allowable bearing pressure may be increased by 600 psf for each additional foot of width and by 900 psf for each additional foot of depth to a maximum safe soil bearing pressure of 4,500 psf for dead plus live loads. These bearing values may be increased by one-third for wind or seismic loading.

For footings thus designed and constructed, we would anticipate a maximum static settlement of less than 1 inch. Differential static settlement between similarly loaded adjacent footings is expected to be approximately half the total settlement. Static settlement is expected to occur during construction or shortly after.

LATERAL LOADING:

Resistance to lateral loads will be provided by passive earth pressure and base friction. For footings bearing against compacted fill, passive earth pressure may be considered to be developed at a rate of



400 psf per foot of depth. Base friction may be computed at 0.39 times the normal load. Base friction and passive earth pressure may be combined without reduction.

Other than conservative soil modeling, the lateral passive earth pressure and base friction values recommended do not include factors of safety. If the design is to be based on allowable lateral resistance values, we recommend that minimum factors of safety of 1.5 and 2.0 be applied to the friction coefficient and passive lateral earth pressure, respectively. The resulting allowable lateral resistance values are:

Allowable Lateral Resistance Values			
	Ultimate	Allowable	Factor of Safety
Base Friction Coefficient	0.39	0.26	1.5
Passive Lateral Earth Pressure (psf/ft)	400	200	2.0

For preliminary design purposes, a lateral active earth pressure developed at a rate of 40 psf per foot of depth should be utilized for unrestrained conditions.

For restrained conditions, an at-rest earth pressure of 60 psf per foot of depth should be utilized.

The "at-rest" condition applies toward braced walls that are not free to tilt. The "active" condition applies toward unrestrained cantilevered walls where wall movement is anticipated. The structural designer should use judgment in determining the wall fixity and may utilize values interpolated between the "at-rest" and "active" conditions where appropriate.

These values are based on backfills with on-site materials compacted to 90 percent of relative compaction and should be verified prior to construction. These values are applicable only to level, properly drained backfill with no additional surcharge loadings and do not include a factor of safety



other than conservative modeling of the soil strength parameters. *If inclined backfills are proposed, this firm should be contacted to develop appropriate active earth pressure parameters.* If import material is to be utilized for backfill, an engineer from this firm should verify the backfill has equivalent or superior strength values.

RETAINING WALL BACKFILL:

Backfill behind retaining walls should consist of a soil of sufficient granularity that the backfill will properly drain. The granular soil should be classified per the USCS as GW, GP, SW, SP, SW-SM or SP-SM. Surface drainage should be provided to prevent ponding of water behind walls. A drainage system consisting of either of the following should be installed behind all retaining walls:

1. A 4-inch-diameter perforated PVC (Schedule 40) pipe or equivalent at the base of the stem encased in 2 cubic feet of granular drain material per linear foot of pipe or
2. Synthetic drains such as Enkadrain, Miradrain, Hydraway 300 or equivalent.

Perforations in the PVC pipe should be 3/8 inch in diameter and facing down. Granular drain material should be wrapped with filter cloth such as Mirafi 140 or equivalent to prevent clogging of the drains with fines. Walls should be waterproofed to prevent nuisance seepage. Water should outlet to an approved drain.

TRENCH EXCAVATION:

The soils encountered within our exploratory borings are generally classified as a Type "C" soil in accordance with the CAL/OSHA excavation standards. Unless specifically evaluated by our engineering geologist, all the trench excavations should be performed following the recommendation of CAL/OSHA (State of California, 2013) for Type "C" soil. Based upon a soil classification of Type "C", the temporary excavation should not be inclined steeper than 1.5 horizontal (h) to 1 vertical (v) for maximum trench depth of less than 20 feet. For trench excavation deeper than 20 feet or for conditions that differ from those described for Type "C" in the CAL/OSHA excavation standards, this firm should be contacted.



TRENCH BEDDING AND BACKFILLS:

Trench Bedding - Pipe bedding material should meet and be placed according to the current edition of the Standard Specifications for Public Works Construction "Greenbook" or other project specifications. Pipe bedding should be uniform, free-draining, granular material with a sand equivalent of at least 30. This firm should confirm sand equivalent values of pipe bedding material prior to its use.

Backfill - The on-site soil should provide quality backfill material provided it is free from organic matter and other deleterious materials. Rock or similar irreducible material with a maximum dimension greater than 6 inches should not be buried or placed in backfills.

Fill to be compacted by heavy equipment should be spread in near-horizontal layers, approximately 8 inches in thickness. For fill to be compacted by hand-operated equipment, thinner lifts, 4 to 6 inches in thickness, should be utilized. Each lift should be spread evenly, brought to near optimum moisture content and compacted to a minimum relative compaction of 90 percent in accordance with ASTM D1557. To avoid pumping, backfill material should be mixed and moisture treated outside of the excavation prior to lift placement in the trench.

Soils required to be compacted to at least 95 percent relative compaction, such as pavement subgrade, should be moisture treated to near optimum moisture content not exceeding 2 percent above optimum.

A controlled low-strength material could be considered to fill any cavities, such as voids created by caving or undermining of soils beneath existing improvements or pavement to remain, or any other areas that would be difficult to properly backfill.

SLABS-ON-GRADE:

To provide adequate support, concrete slabs-on-grade should bear on a minimum of 12 inches of compacted soil. Concrete slabs-on-grade should be a minimum of 4 inches in thickness. The soil



should be compacted to 90 percent relative compaction. The final soil pad surfaces should be rolled to provide smooth, dense surfaces.

Slabs to receive moisture-sensitive coverings should be provided with a moisture vapor retarder. We recommend that a vapor retarder be designed and constructed according to the American Concrete Institute 302.1R, Concrete Floor and Slab Construction, which addresses moisture vapor retarder construction. At a minimum, the vapor retarder/barrier should comply with ASTM E1745 and have a nominal thickness of at least 10 mils. The vapor retarder/barrier should be properly sealed, per the manufacturer's recommendations, and protected from punctures and other damage. Per the Portland Cement Association (www.cement.org/tech/cct_con_vapor_retarders.asp), for slabs with vapor-sensitive coverings, a layer of dry, granular material (sand) should be placed under the vapor retarder/barrier. For slabs in humidity-controlled areas, a layer of dry, granular material (sand) should be placed above the vapor retarder/barrier.

Concrete building slabs subjected to heavy loads, such as materials storage, should be designed by a registered civil engineer competent in concrete design. A modulus of vertical subgrade reaction of 300 pounds per cubic inch can be utilized in the design of slabs-on-grade for the proposed project.

POTENTIAL EROSION AND DRAINAGE:

The potential for erosion should be mitigated by proper drainage design. The site should be graded so that surface water flows away from structures. Water should not be allowed to flow over graded areas or natural areas so as to cause erosion. Graded areas should be planted or otherwise protected from erosion by wind or water.

PRELIMINARY FLEXIBLE PAVEMENT DESIGN:

The following recommended structural sections were calculated based on traffic indices (TIs) provided in the Caltrans Highway Design Manual, "Minimum TIs for Safety Roadside Rest Areas", Table 613.5B (Caltrans, 2012). As per Caltrans Highway Design Manual Section 614.3, a design subgrade maximum R-value of 50 was utilized in performing the pavement section calculations.



Preliminary Flexible Pavement Design			
Usage	TI	R-Value	Recommended Structural Section
Auto Parking Areas	5.0	50	0.25' HMA/0.35' Class 2 AB
Auto Roads	5.5	50	0.25' HMA/0.35' Class 2 AB
Truck Parking Areas	6.0	50	0.30' HMA/0.35' Class 2 AB
Truck Ramps and Roads	8.0	50	0.40' HMA/0.45' Class 2 AB

HMA = hot mix asphalt

AB = aggregate base

The above structural sections are predicated upon proper compaction of the utility trench backfills and the subgrade soils, with the upper 6 inches of subgrade soils and all aggregate base material brought to a minimum relative compaction of 95 percent in accordance with ASTM D1557 prior to paving. The aggregate base should meet Caltrans requirements for Class 2 base.

It should be noted that the above pavement designs are based upon preliminary R-value testing and should be verified by additional sampling and testing during construction when the actual subgrade soils are exposed.

C.H.J., Incorporated does not practice traffic engineering. The TIs used to develop the recommended pavement sections are typical for projects of this type. We recommend that the project civil engineer or traffic engineer verify that the TIs are appropriate for this project.

PRELIMINARY RIGID PAVEMENT DESIGN:

Based on an R-value of 68, we recommend the following Portland cement concrete (PCC) pavement designs. The designs are based on the ACI "Guide for the Design and Construction of Concrete Parking Lots" (ACI 330R-08).



Preliminary Rigid Pavement Design	
Design Area	Recommended Section
Car Parking and Access Lanes ADTT = 1 (Category A)	4.0" PCC/Compacted Soil
Truck Parking Areas Multiple Units ADTT = 300 (Category B)	5.5" PCC/Compacted Soil

ADTT = Average Daily Truck Traffic

The above recommended concrete sections are based on a design life of 20 years, with integral curbs or thickened edges. In addition, the above structural sections are predicated upon proper compaction of the utility trench backfills and the subgrade soils, with the upper 12 inches of subgrade soils brought to a uniform relative compaction of 95 percent (ASTM D1557).

Slab edges that will be subject to vehicle loading should be thickened at least 2 inches at the outside edge and tapered to 36 inches back from the edge. Typical details are given in the ACI "Guide for the Design and Construction of Concrete Parking Lots" (ACI 330R-08). Alternatively, slab edges subject to vehicle loading should be designed with dowels or other load transfer mechanism. Thickened edges or dowels are not necessary where new pavement will abut areas of curb and gutter, buildings or other structures preventing through-vehicle traffic and associated traffic loads.

The concrete sections may be placed directly over a compacted subgrade prepared as described above. The concrete to be utilized for the concrete pavement should have a minimum modulus of rupture of 590 pounds per square inch. This approximates a 28-day compressive strength of 3,500 pounds per square inch. However, the design strength should be based upon the modulus of rupture and not the compressive strength. Contraction joints should be sawcut in the pavement at maximum spacing of 30 times the thickness of the slab, up to a maximum of 15 feet. Sawcutting in the pavement should be performed within 12 hours of concrete placement, or preferably sooner.



Sawcut depths should be equal to approximately one-quarter of the slab thickness for conventional saws or 1 inch when early-entry saws are utilized on slabs 9 inches thick or less. The use of plastic strips for formation of jointing is not recommended. The use of expansion joints is not recommended, except where the pavement will adjoin structures. Construction joints should be constructed such that adjacent sections butt directly against each other and are keyed into each other or the joints are properly doweled with smooth dowels. It should be noted that distributed steel reinforcement (welded wire fabric) is not necessary, nor will any decrease in section thickness result from its inclusion.

The above pavement designs were based on preliminary R-value testing and should be verified by additional sampling and testing during construction when the actual subgrade soils are exposed.

C.H.J., Incorporated does not practice traffic engineering. The ADTT values used to develop the recommended PCC pavement sections are typical for projects of this type. We recommend that the project civil engineer or traffic engineer verify that the ADTT values used are appropriate for this project.

CHEMICAL/CORROSIVITY TESTING:

Selected samples of materials were delivered to HDR, Inc. for soil corrosivity testing. Laboratory testing consisted of pH, resistivity and major soluble salts commonly found in soils. The results of the laboratory tests performed by HDR, Inc. appear in Appendix "C".

These tests have been performed to screen the site for potentially corrosive soils. Values from the soil tested are considered potentially "mildly corrosive" to ferrous metals at as-received moisture condition and at saturated condition. Specific corrosion control measures, such as coating of the pipe with non-corrosive material or alternative non-metallic pipe material, are not considered necessary.

Ammonium and nitrate levels did not indicate a concern as to corrosion of buried copper.



Results of the soluble sulfate testing indicate a "not applicable" (Class S0) anticipated exposure to sulfate attack. Based on the criteria from Table 4.3.1. of the "American Concrete Institute Manual of Concrete Practice" (2011), no special measures, such as specific cement types or water-cement ratios, will be needed for this "not applicable" exposure to sulfate attack.

The soluble chloride content of the soils tested was not at levels high enough to be of concern with respect to corrosion of reinforcing steel. The results should be considered in combination with the soluble chloride content of the hardened concrete in determining the effect of chloride on the corrosion of reinforcing steel.

C.H.J., Incorporated does not practice corrosion engineering. If further information concerning the corrosion characteristics, or interpretation of the results submitted herein, is required, then a competent corrosion engineer could be consulted.

CONSTRUCTION OBSERVATION:

All grading operations, including site clearing and stripping, should be observed by a representative of the geotechnical engineer. The geotechnical engineer's field representative will be present to provide observation and field testing and will not supervise or direct any of the actual work of the contractor, his employees or agents. Neither the presence of the geotechnical engineer's field representative nor the observations and testing by the geotechnical engineer shall excuse the contractor in any way for defects discovered in his work. It is understood that the geotechnical engineer will not be responsible for job or site safety on this project, which will be the sole responsibility of the contractor.

LIMITATIONS

C.H.J., Incorporated has striven to perform our services within the limits prescribed by our client, and in a manner consistent with the usual thoroughness and competence of reputable geotechnical engineers and engineering geologists practicing under similar circumstances. No other



representation, express or implied, and no warranty or guarantee is included or intended by virtue of the services performed or reports, opinion, documents, or otherwise supplied.

This report reflects the testing conducted on the site as the site existed during the investigation, which is the subject of this report. However, changes in the conditions of a property can occur with the passage of time, due to natural processes or the works of man on this or adjacent properties. Changes in applicable or appropriate standards may also occur whether as a result of legislation, application or the broadening of knowledge. Therefore, this report is indicative of only those conditions tested at the time of the subject investigation, and the findings of this report may be invalidated fully or partially by changes outside of the control of C.H.J., Incorporated. This report is therefore subject to review and should not be relied upon after a period of one year.

The conclusions and recommendations in this report are based upon observations performed and data collected at separate locations, and interpolation between these locations, carried out for the project and the scope of services described. It is assumed and expected that the conditions between locations observed and/or sampled are similar to those encountered at the individual locations where observation and sampling was performed. However, conditions between these locations may vary significantly. Should conditions that appear different than those described herein be encountered in the field by the client or any firm performing services for the client or the client's assign, this firm should be contacted immediately in order that we might evaluate their effect.

If this report or portions thereof are provided to contractors or included in specifications, it should be understood by all parties that they are provided for information only and should be used as such.

The report and its contents resulting from this investigation are not intended or represented to be suitable for reuse on extensions or modifications of the project, or for use on any other project.



CLOSURE

We appreciate this opportunity to be of service and trust this report provides the information desired at this time. Should questions arise, please do not hesitate to contact this office.



Respectfully submitted,
C.H.J., INCORPORATED

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LIST OF AERIAL PHOTOGRAPHS

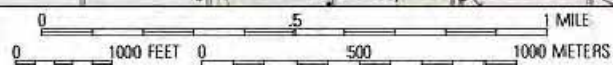
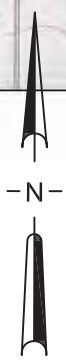
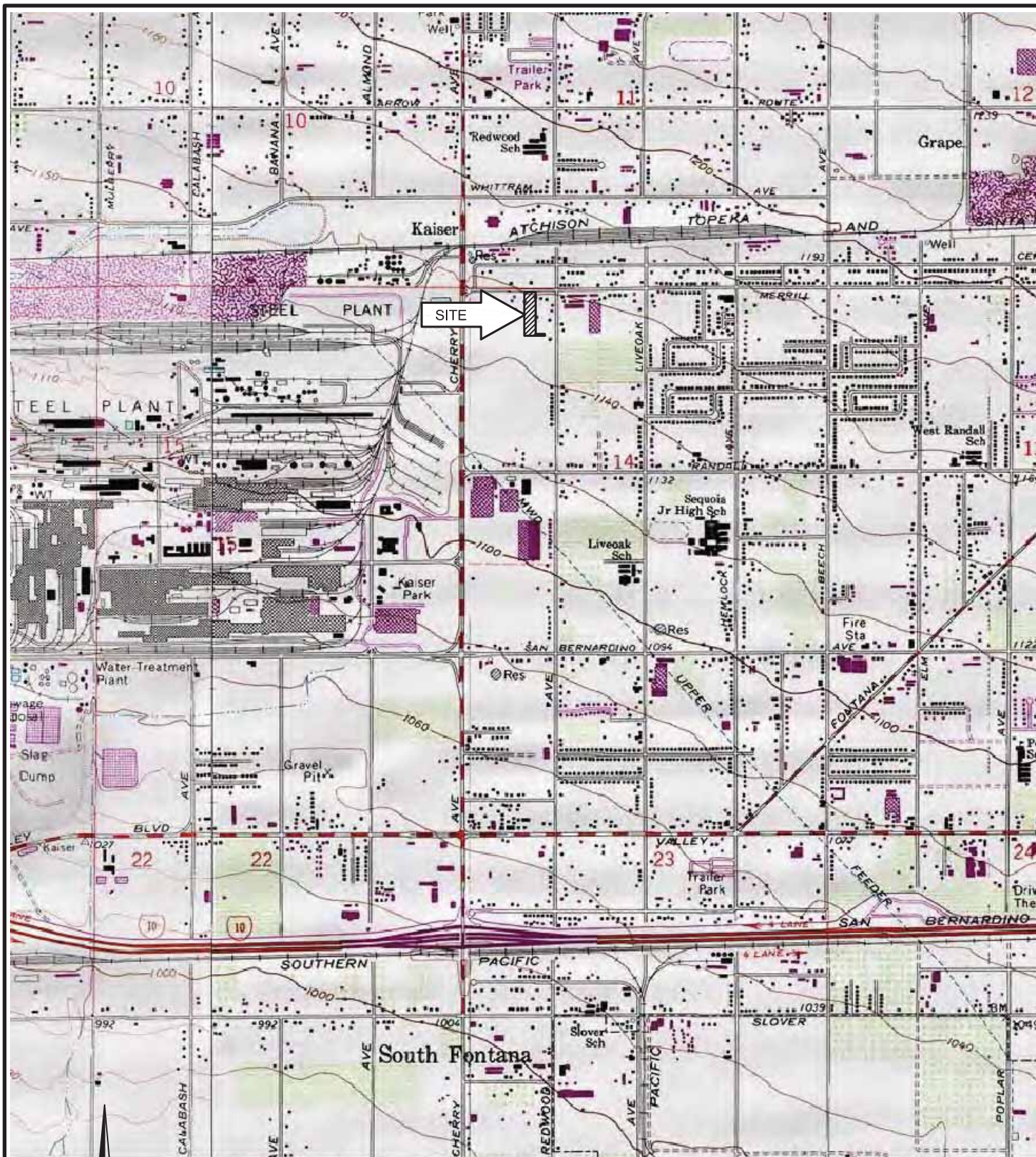
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APPENDIX "A"

MAPS



SCALE: 1" = 2000'

INDEX MAP

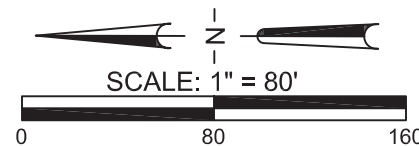
FOR:
COUNTY OF SAN BERNARDINO
DATE:
OCTOBER 2016

GEOTECHNICAL INVESTIGATION AND INFILTRATION TESTING
DEPARTMENT OF BEHAVIORAL HEALTH
CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
14677 MERRILL AVENUE
FONTANA, CALIFORNIA

ENCLOSURE
"A-1"
JOB NUMBER
G16-049-3



Site Plan Option 1
 DEPARTMENT OF BEHAVIORAL HEALTH CRISIS RESIDENTIAL TREATMENT FACILITY
 MERRILL AVENUE AND REDWOOD AVENUE, FONTANA, CA



LEGEND:

- B-4
 EXPLORATORY BORING
- DR-2
 DOUBLE-RING INFILTROMETER TESTS

SITE PLAN

FOR:
 COUNTY OF SAN BERNARDINO

DATE:
 OCTOBER 2016

GEOTECHNICAL INVESTIGATION AND INFILTRATION TESTING
 DEPARTMENT OF BEHAVIORAL HEALTH
 CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
 14677 MERRILL AVENUE
 FONTANA, CALIFORNIA

ENCLOSURE
 "A-2"

JOB NUMBER
 G16-049-3



APPENDIX "B"

EXPLORATORY LOGS



KEY TO LOGS

LEGEND OF LAB/FIELD TESTS:

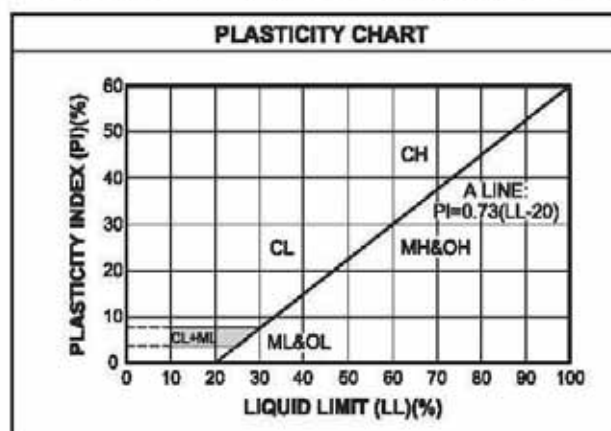
Blows	A measure of the penetration resistance of soil expressed as the number of hammer blows required to advance the indicated sampler 6 inches (or less if noted). Samplers are driven with an automatic hammer that drops a 140-pound weight 30 inches for each blow. After the required seating, samplers are advanced up to 18 inches ahead of the boring, providing up to three sets of blows per drive.
Bulk	Indicates Disturbed or Bulk Sample
Cor.	Chemical/Corrosivity Tests (ASTM G187, D4327, D4972)
Dist.	Indicates Disturbed Sample
DS	Direct Shear Test (ASTM D3080)
MDC	Maximum Density Optimum Moisture Test (ASTM D1557)
N.R.	Indicates No Recovery of Sample
Pass #200	Washed through No. 200 Screen (ASTM D422)
Ring	Indicates Relatively Undisturbed Ring Sample. The number of blows per 6 inches required to drive a "California Sampler" (3-1/4" O.D. and 2-3/8" I.D.) 18 inches using a 140-pound weight falling 30 inches was recorded.
RV	R- Value Test (Caltrans 301)
SA	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis (ASTM D6913)
SE	Sand Equivalent Test (ASTM D2419)
SPT	Indicates Standard Penetration Test. The number of blows per 6 inches required to drive an unlined SPT sampler (2" O.D. and 1-3/8" I.D.) 18 inches using a 140-pound weight falling 30 inches was recorded.



UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size)		
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	
	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	
	GM	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	
	SM	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size)		
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils

LABORATORY CLASSIFICATION CRITERIA	
$GW \quad C_u = \frac{D_{60}}{D_{10}} \text{ greater than } 4; C_c = \frac{D_{30}^2}{D_{10} \times D_{60}} \text{ between } 1 \text{ and } 3$	
GP Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4
GC	Atterberg limits above "A" line with P.I. greater than 7
Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.	
$SW \quad C_u = \frac{D_{60}}{D_{10}} \text{ greater than } 6; C_c = \frac{D_{30}^2}{D_{10} \times D_{60}} \text{ between } 1 \text{ and } 3$	
SP Not meeting all gradation requirements for SW	
SM	Atterberg limits below "A" line or P.I. less than 4
SC	Atterberg limits above "A" line with P.I. greater than 7
Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.	
Determine percentages of sand and gravel from grain-size curves. Depending on percentage of fines (fraction smaller than No. 200 sieve size). Coarse-grained soils are classified as follows: Less than 5 percent.....GW, GP, SW, SP More than 12 percent.....GM, GC, SM, SC 5 to 12 percent.....Borderline cases requiring dual symbols	



EXPLORATORY BORING NO. 1

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./3.25" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(GM) Silty Sandy Gravel, fine to coarse, with cobbles to 4", light yellowish brown	Native Auger Chatter	X		9 16 26	0.8	Dist.	Ring
5		(GW-GM) Well-graded Gravel, with silt and sand, gravel to 3", light yellowish brown			X		0.5		Cor., SA
				X		12 34 27	1.0	130	Ring
10		(GM) Silty Sandy Gravel, fine to coarse, gravel to 3", dark yellowish brown		X		20 50	2.0	129	Ring
					X		1.3		
15			Rock in shoe Hard drilling	X		50	2.4	121	Ring
20				X		34 50/5"	1.7	130	Ring
25			Re-sampled Hard drilling	X	X	50/3" 50/5"	N.R. 2.0	N.R. 126	Ring Ring
30		(SM) Silty Sand, fine to coarse, with gravel to 2", dark yellowish brown		X		30 50/3"	4.0	96	Ring
		END OF BORING NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, MODERATE CAVING							



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-1

EXPLORATORY BORING NO. 2

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./2.0" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SP-SM) Sand, fine to coarse, with gravel and cobbles to 5", dark yellowish brown	Native						
			Auger	X		4			Pass #200, SPT
			Chatter			6			
			Rock in shoe		X	12	2.6		DS, MDC, SA
10		(SP-SM) Sand, fine to coarse, with gravel and cobbles to 5", dark yellowish brown		X		13			Pass #200, SPT
						10			
						9			
		(GP) Sandy Gravel, fine to coarse, with cobbles to 4", dark yellowish brown			X		1.7		
15				X		15			Pass #200, SPT
						13			
						21			
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		15			Pass #200, SPT
20						43			
						35			
				X		35			Pass #200, SPT
						50/4"			
25			Hard drilling						
				X		50/5"			Pass #200, SPT
30		(SM) Silty Sand, fine to coarse, with gravel to 2", brown		X		18			Pass #200, SPT
						40			
						50/4"			



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-2a

EXPLORATORY BORING NO. 2

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./2.0" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
37		(SM) Silty Sand, fine to coarse, with gravel to 2", brown	Auger Chatter	X		50			SPT
40				X		28			SPT
45		(SM) Silty Sand, fine, reddish brown	Less chatter	X		50/3"			
45				X		14			SPT
50				X		22			
50				X		28			
55		END OF BORING		X		14			SPT
55		NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, MODERATE CAVING		X		18			
60				X		27			
65				X					



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-2b

EXPLORATORY BORING NO. 3

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

[illegible]

CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-3

EXPLORATORY BORING NO. 4

Date Drilled: 10/11/16

Client: County of San Bernardino



Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(GP-GM) Well-graded Gravel, with sand, fine to coarse, silt, and cobbles to 5", light yellowish brown	Native Auger Chatter				0.7		SA, SE
		END OF BORING NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, MODERATE CAVING							



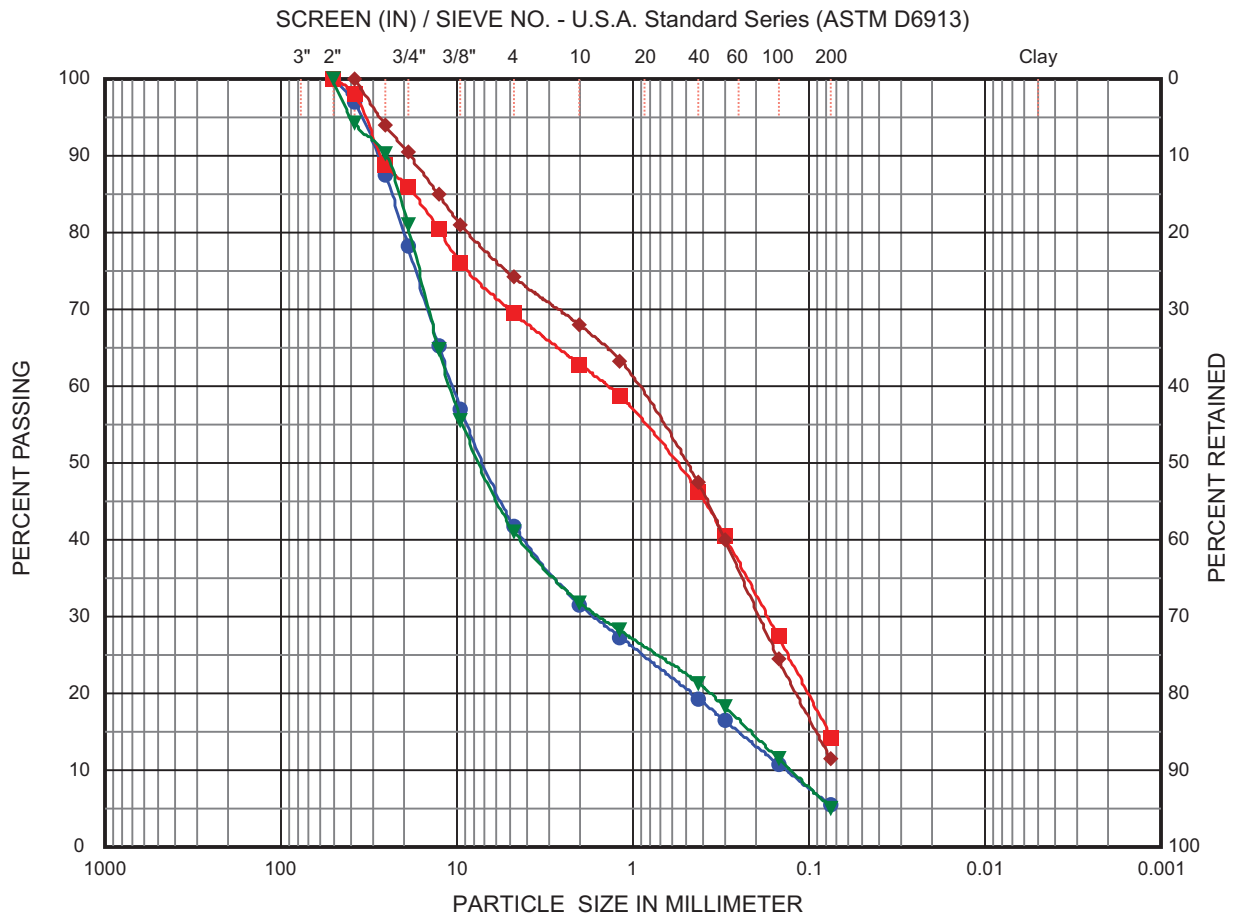
CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-4



APPENDIX "C"

LABORATORY TESTING



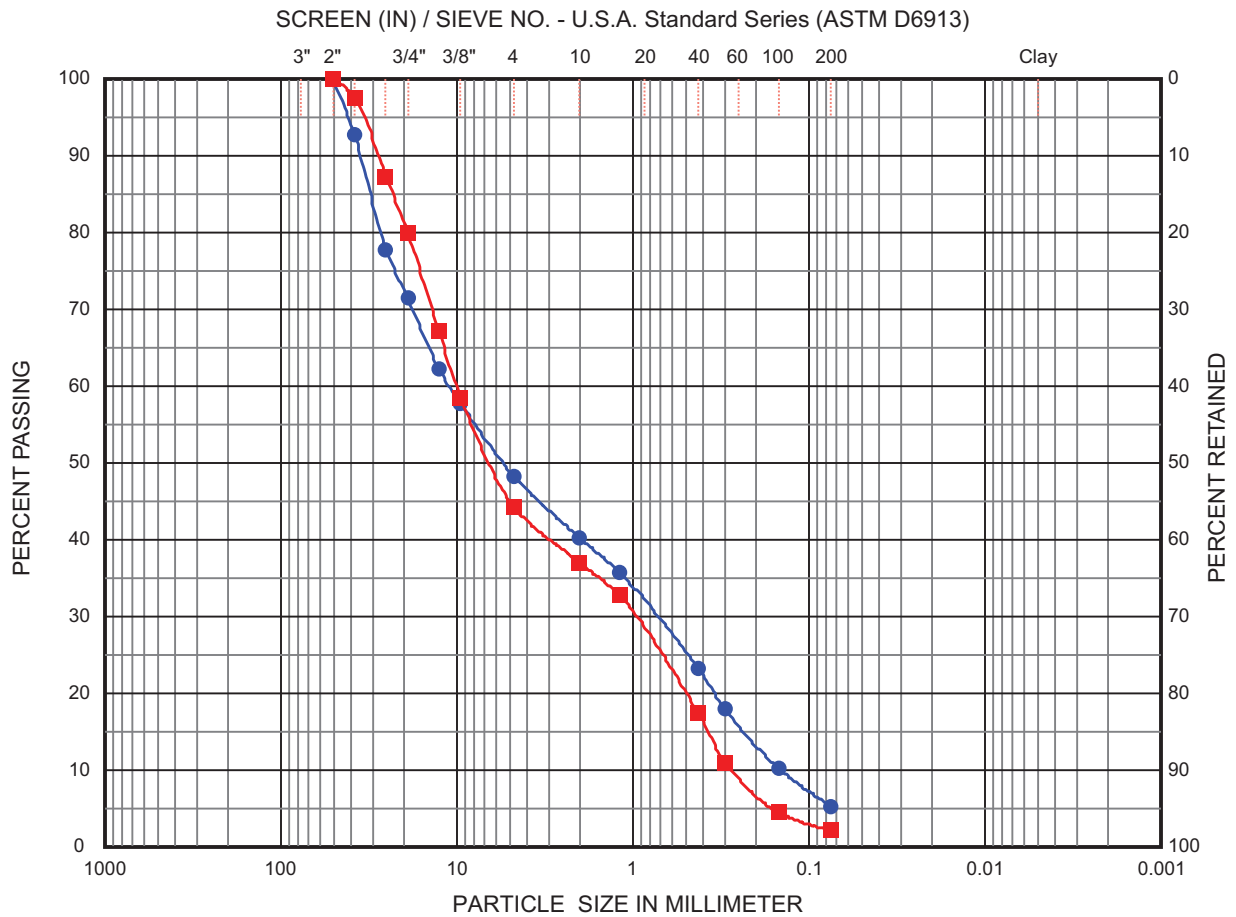
Cobbles & Boulders	Gravel		Sand			Silt	Clay
	Coarse	Fine	Coarse	Medium	Fine		

	Boring No.	Depth	Gravel	Sand	Fines	Clay	D ₁₀	D ₃₀	D ₅₀	D ₆₀	C _u	C _c
●	1	3	58.2	36.4	5.4		0.1352	1.676	7.185	10.662	78.9	1.9
	(GW-GM) Well-graded gravel with silt and sand											
■	2	3	30.5	55.1	14.3		0.0596	0.172	0.555	1.372	23.0	0.4
	(SM) Silty sand with gravel											
◆	3	5	25.8	62.8	11.4		0.0697	0.192	0.490	0.915	13.1	0.6
	(SP-SM) Poorly-graded sand with silt and gravel (SE=46)											
▼	4	5	58.9	36.0	5.1		0.1274	1.566	7.595	11.065	86.9	1.7
	(GW-GM) Well-graded gravel with silt and sand (SE=59)											



PARTICLE SIZE DISTRIBUTION (ASTM D6913)

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)					
Location:	14677 Merrill Avenue, Fontana, California					
Job Number:	G16-049-3	Engineer:	M.Noorzay	Enclosure:	C-1	



Cobbles & Boulders	Gravel		Sand			Silt	Clay
	Coarse	Fine	Coarse	Medium	Fine		

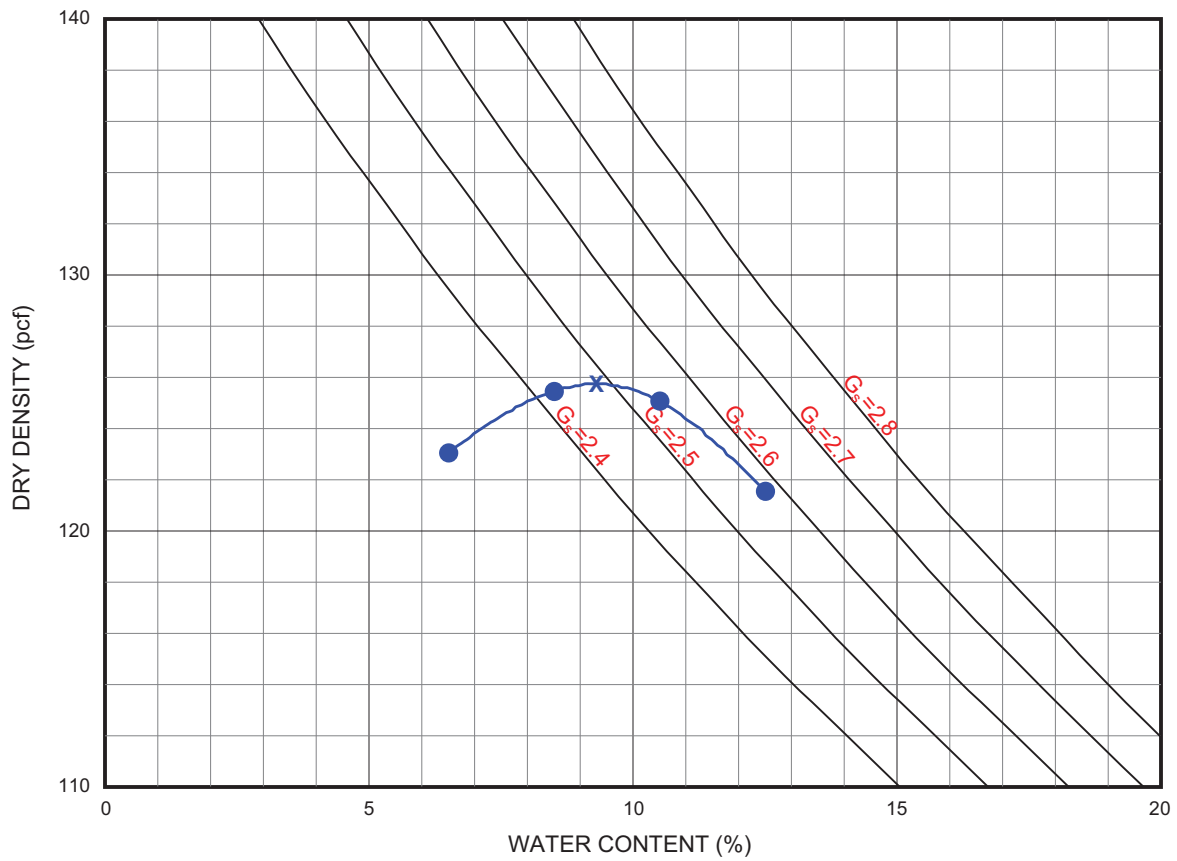
	Boring No.	Depth	Gravel	Sand	Fines	Clay	D ₁₀	D ₃₀	D ₅₀	D ₆₀	C _u	C _c
●	DR-1	5	51.7	43.0	5.3		0.1448	0.714	5.474	11.099	76.7	0.3
	(GP-GM) Poorly-graded gravel with silt and sand											
■	DR-2	5	55.7	42.2	2.1		0.2773	0.952	6.650	10.110	36.5	0.3
	(GP) Poorly-graded gravel with sand											

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PARTICLE SIZE DISTRIBUTION (ASTM D6913)

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)					
Location:	14677 Merrill Avenue, Fontana, California					
Job Number:	G16-049-3	Engineer:	M.Noorzay	Enclosure:	C-2	

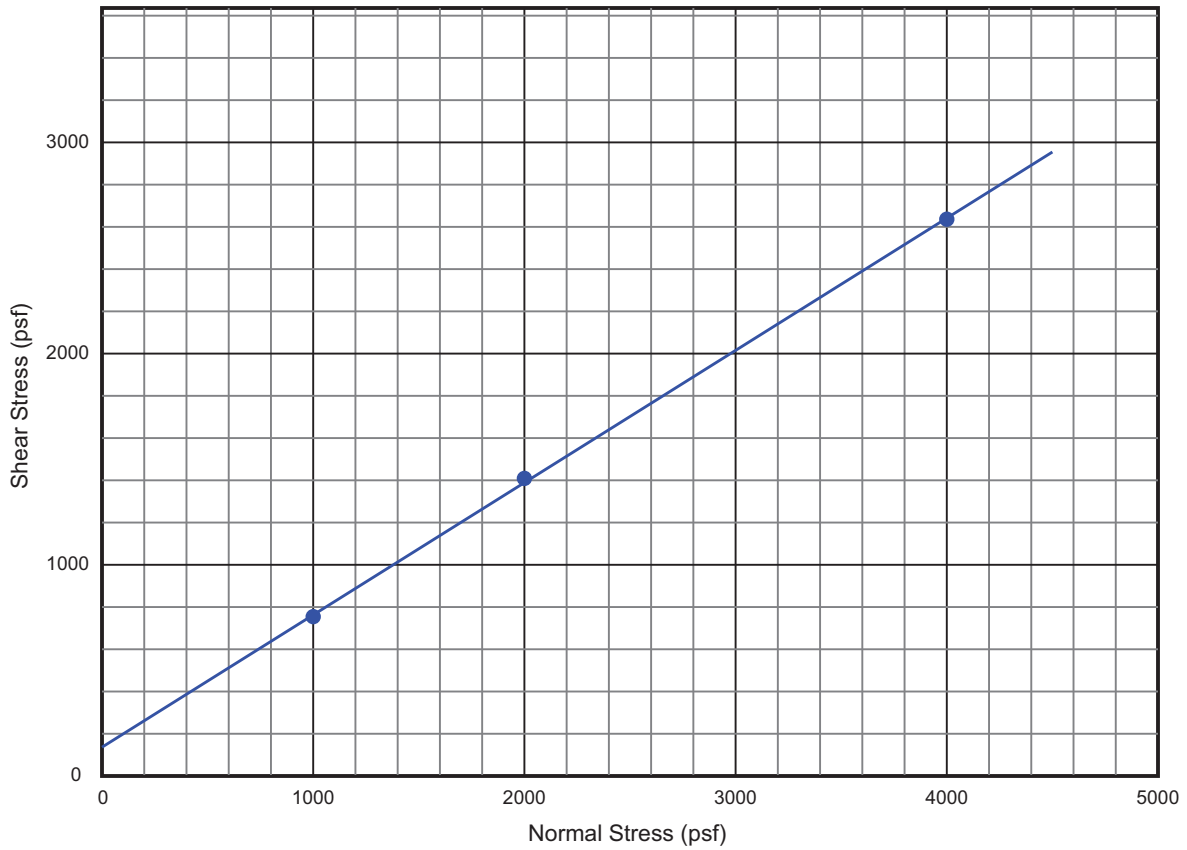


	Boring No.	Depth (ft)	USCS Classification	γ_{dmax} (pcf)	w_o (%)
●	2	3	(SM) Silty sand, fine to coarse with gravel	125.5	9.0



COMPACTION CURVES (ASTM D1557)

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)				
Location:	14677 Merrill Avenue, Fontana, California				
Job Number:	G16-049-3	Engineer:	M.Noorzay	Enclosure:	C-3



	Boring No.	Depth (ft)	γ_d (pcf)	w (%)	C_{pk} (psf)	ϕ_{pk} (°)	C_{rs} (psf)	ϕ_{rs} (°)
●	2A	3	113.0	9.0	310.2	31.4	139.8	32.1
(SM) Silty sand, fine to coarse with gravel / Remolded (RC=90%)								



DIRECT SHEAR TESTS (ASTM D3080)

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)				
Location:	14677 Merrill Avenue, Fontana, California				
Job Number:	G16-049-3	Engineer:	M.Noorzay	Enclosure:	C-4

FINES CONTENT (ASTM D1140)

Boring No.	2	2	2	2	2	2	2
Depth (ft)	1	5	10	15	20	25	30
Original Dry Mass	131.5	211.9	211.8	202.7	196.7	199.9	199.4
Dry Mass after Washing	117.9	193.8	201.3	188	177.2	183.8	174.8
Fine Contents (%)	10.3	8.5	5.0	7.3	9.9	8.1	12.3
Classification	SP-SM	SP-SM	GP	GP-GM	GP-GM	GP-GM	SM

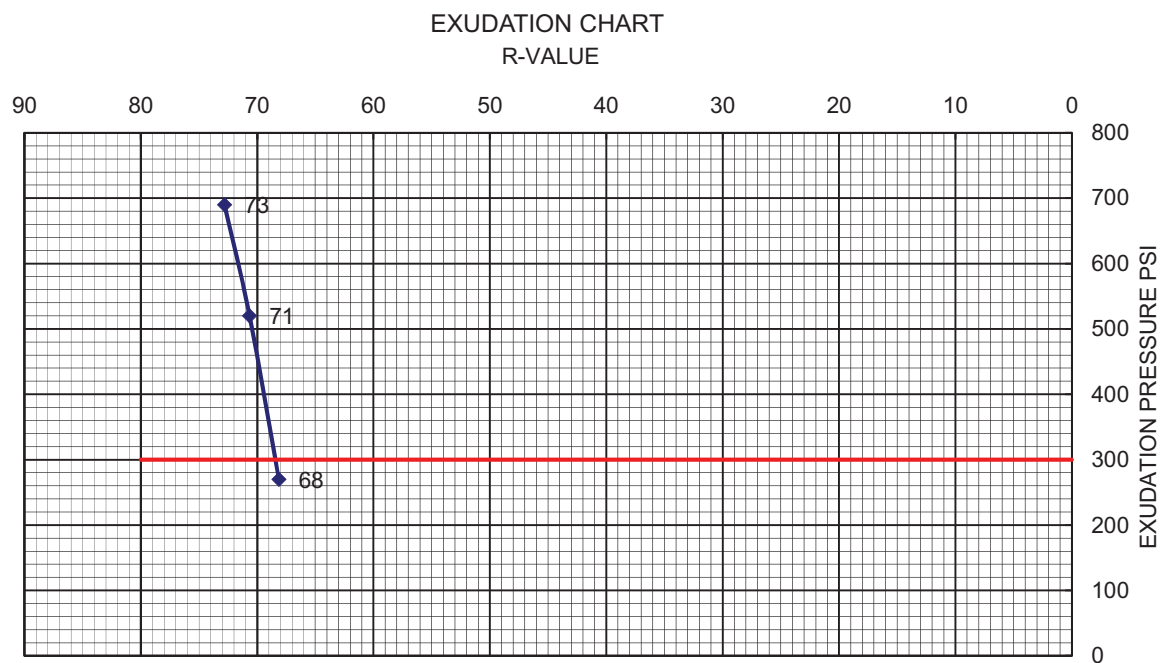
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TEST DATA SUMMARY

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)					
Location:	14677 Merrill Avenue, Fontana, California					
Job Number:	G16-049-3	Engineer:	M.Noorzay	Enclosure:	C-5	

Traffic Index (T.I.)	5.0	A	B	C	D
COMPACTOR AIR PRESSURE P.S.I.		350	350	350	
INITIAL MOISTURE %		1.9	1.9	1.9	
WATER ADDED, ML		75	70	65	
WATER ADDED %		7.0	6.5	6.1	
MOISTURE AT COMPACTION %		8.9	8.4	8.0	
HEIGHT OF BRIQUETTE		2.49	2.48	2.47	
WET WEIGHT OF BRIQUETTE		1095	1095	1094	
DENSITY LB. PER CU.FT.		122.4	123.4	124.3	
STABILOMETER PH AT 1000 LBS.		20	18	17	
2000 LBS.		33	30	28	
DISPLACEMENT		4.50	4.50	4.40	
R-VALUE		68	71	73	
EXUDATION PRESSURE		270	520	690	
THICK. INDICATED BY STAB.		0.00	0.00	0.00	
EXPANSION PRESSURE		0	0	0	
THICK. INDICATED BY E.P.		0.00	0.00	0.00	



R-Value: 68

Sample No.	Depth (ft)	Soil/Sample Type	SE	w _o (%)
3A	5	(SP-SM) Poorly graded sand with silt and gravel	46	1.9



C.H.J. Incorporated

R-VALUE TEST

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)		
Location:	14677 Merrill Avenue Fontana, California		
Job No.:	G16-049-3	Enclosure:	C-6



Table 1 - Laboratory Tests on Soil Samples

*CHJ Consultants
Co of SB/Fontana Merrill
Your #16472-3, HDR Lab #16-0758LAB
14-Oct-16*

Sample ID

1A

Resistivity	Units	
as-received	ohm-cm	>4,400,000
saturated	ohm-cm	23,200

pH 5.7

Electrical

Conductivity mS/cm 0.03

Chemical Analyses

Cations

calcium	Ca ²⁺	mg/kg	16
magnesium	Mg ²⁺	mg/kg	ND
sodium	Na ¹⁺	mg/kg	4.4
potassium	K ¹⁺	mg/kg	8.8

Anions

carbonate	CO ₃ ²⁻	mg/kg	ND
bicarbonate	HCO ₃ ¹⁻	mg/kg	107
fluoride	F ¹⁻	mg/kg	2.0
chloride	Cl ¹⁻	mg/kg	2.9
sulfate	SO ₄ ²⁻	mg/kg	6.1
phosphate	PO ₄ ³⁻	mg/kg	4.6

Other Tests

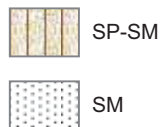
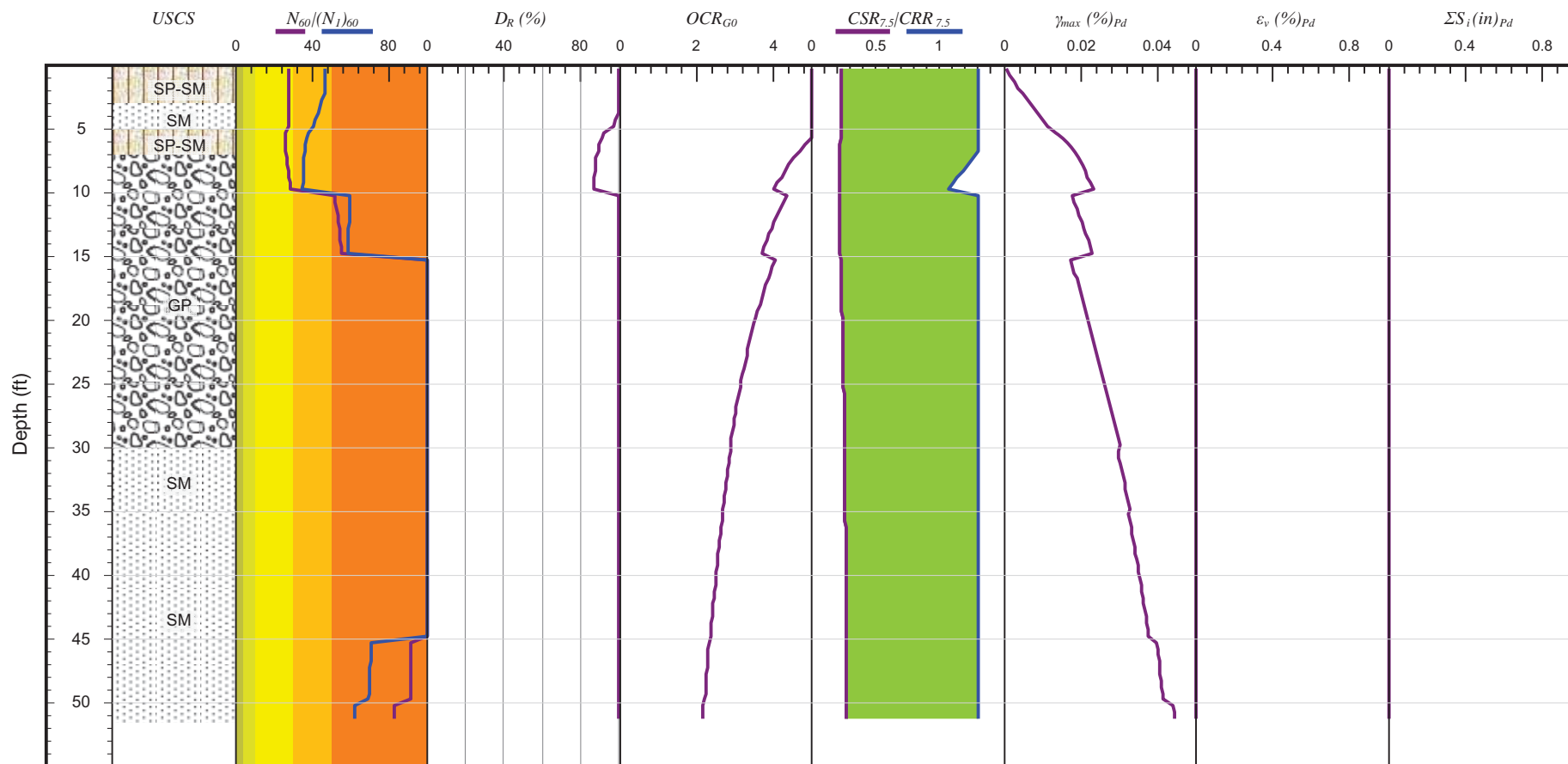
ammonium	NH ₄ ¹⁺	mg/kg	ND
nitrate	NO ₃ ¹⁻	mg/kg	6.1
sulfide	S ²⁻	qual	na
Redox	mV		na

Resistivity per ASTM G187, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.
Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed



APPENDIX "D"

GEOTECHNICAL CALCULATIONS



Earthquake & Groundwater Information:

Magnitude = 6.56

Max. Acceleration = 0.5 g

Project GW = 160 ft

Maximum Settlement = 0.00 in

Settlement at Bottom of Footing = 0.00 in

Liquefaction: Idriss & Boulanger (2008)

Settl.: [dry] Pradel (1998)

Lateral spreading: Idriss & Boulanger (2008)

M correction: [Sand] Boulanger & Idriss(2004)

ov correction: Idriss & Boulanger (2008)

Stress reduction: Idriss & Boulanger (2008)

Seismic Settlement Potential - SPT Data

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)				
Location:	14677 Merrill Avenue, Fontana, California				
Job Number:	G16-049-3	Boring No.:	B-2	Enclosure:	D-1



C.H.J. Incorporated



C.H.J. Incorporated

1355 E. Cooley Drive, Colton, CA 92324 • Phone (909) 824-7210 • Fax (909) 824-7209

October 31, 2016

County of San Bernardino

Job No. G16-049-2

RESO-Project Management Division

385 North Arrowhead Avenue, Third Floor

San Bernardino, California 92415

Attention: Mr. Gabriel D. Martin, Project Manager II

Dear Mr. Martin:

This letter transmits two copies of the Percolation Investigation report prepared for the proposed Department of Behavioral Health crisis stabilization unit facility (Project No. 7N25) located at 14677 Merrill Avenue, Fontana, California.

We appreciate this opportunity to provide geologic services for this project. If you have questions or comments concerning this report, please contact us at your convenience.

Respectfully submitted,

C.H.J., INCORPORATED

George Battey, III, P.E.
President

GB:lb

Distribution: County of San Bernardino (2 and electronic)



PERCOLATION INVESTIGATION
DEPARTMENT OF BEHAVIORAL HEALTH
CRISIS STABILIZATION UNIT FACILITY
(PROJECT NO. 7N25)
FONTANA, CALIFORNIA
PREPARED FOR
COUNTY OF SAN BERNARDINO
RESD-PROJECT MANAGEMENT DIVISION
JOB NO. G16-049-2

1. DESCRIPTION OF SITE AND OF PROPOSAL:

- 1.0 Date County Specialist Notified: N/A
- 1.1 Prepared for: Mr. Gabriel D. Martin, Project Manager II
County of San Bernardino
RESD-Project Management Division
385 North Arrowhead Avenue, Third Floor
San Bernardino, California 92415
Phone No. (909) 771-1168
- 1.2 Location of Land: See Index Map (Enclosure "A-1").
Proposed crisis stabilization unit facility (Project No. 7N25) located at
14677 Merrill Avenue, Fontana, California.
- 1.3 Proposed Development/Project/Land Use:
- a) Type of Project: An approximately 11,000-square-foot crisis stabilization unit facility building will be developed on the site. It is planned to install a separate leach line system for effluent treatment/disposal.
 - b)
 - 1. Acreage: The area available for the proposed system is approximately 1.7 acres. Percolation testing was performed in the southern portion of the site.
 - 2. Number of Lots: One
 - 3. Lot Density: One lot per 1.7 acres
 - c) Type of Sewage Disposal: A leach line disposal system is proposed for the proposed warehouse building.
 - d) Grading: Minimal grading is required for the project.



1.4 Description of Site and Surroundings:

- a) Topography: See Index Map (Enclosure "A-1"). The site was relatively flat and planar with a slight slope to the south (less than 5 percent).
- b) Water Courses: No drainage features are located at or adjacent to the site.
- c) Vegetation Type and Density: Light growth of trees and grasses
- d) Existing Structures: None in the system area
- e) Existing Wells or Abandoned Wells on or Within 300 Feet of Project: None
- f) Rock Outcrops: No bedrock outcrops were observed.
- g) Probable Depth to Water Table: Expected depth to groundwater at the site is approximately 160 feet below the existing ground surface (bgs).
- h) Any Other Features That May Affect Sewage Disposal: None. The proposed system will be entirely within native alluvial materials.

2. **EQUIPMENT:**

Exploration: The soil conditions underlying the subject site were explored by means of four exploratory borings excavated to a maximum depth of 51-1/2 feet bgs with a truck-mounted drill rig. In addition, each of the four percolation test pits were logged to the depth of the test. All exploratory logs are provided in Enclosure "B".

Leach Lines: Percolation test trenches were excavated with a rubber-tire backhoe equipped with a 36-inch-wide bucket. For purposes of the percolation testing, the following were utilized: 5-gallon water bottles, perforated 6-inch by 12-inch cylindrical cans, 1/4-inch gravel and measuring tape with 1/16-inch divisions.



3. **METHODOLOGY AND PROCEDURES:**

3.1 Locations of Exploratory Borings: See attached Site Plan (Enclosure "A-2"). Due to the relatively limited area of the proposed leach field, the tests were taken at evenly spaced locations within the anticipated leach field areas. Final grading currently is not known; however, minimal grading work is expected.

3.2 Soil Characteristics to Determine Number of Borings: The investigation was based on a favorable soil classification. A total of four percolation tests were performed.

3.3 Minimum Number of Exploratory Borings: As required by San Bernardino County Department of Environmental Health Service (DEHS) Soil Percolation Test Report Standards, four exploratory borings were placed at the site. It is our opinion that the soil conditions at the site are relatively uniform.

3.3.1 Exploratory Trench Results: Exploratory trenches: Description of soil profile: See the exploratory logs (Enclosure "B"). The subsurface soils generally consisted of gravel (GP-GM) and sand (SP-SM, SP). The results of sieve analysis testing performed for representative soils are provided in Enclosure "C".

3.4 Tests for Leach Lines:

3.4.2 Continuous Pre-Soak Percolation Test Procedures for Leach Lines:
Preparation of test hole: In accordance with the Simplified Standard Percolation Test Procedures, Environmental Health Services, San Bernardino County, California, dated August 1992, perforated cylindrical cans were utilized to minimize the effect of sidewall caving and siltation. The bottom of the test holes were lined with approximately 2 inches of gravel.

Soaking period: Simplified Percolation Test Procedures were followed. All test holes were presoaked using a full, inverted 5-gallon water bottle.

Measurement of the percolation rate: Simplified Percolation Test Procedures were followed. The water level was adjusted to 6 inches above the gravel, and the time required for the water level to drop 1 inch (to 5 inches above the gravel) was measured and recorded. The test was then repeated for a drop of 1 inch (from 5 inches to 4 inches above the gravel). The above test procedure was then repeated for a total of four measurements.



3.4.3 Leach Line Test Results:

3.4.3.1 Results: See Enclosure "D".

3.4.3.2 Provide copies of field data: See attached logs (Enclosure "B") and Leach Line Percolation Data Sheets (Enclosures "D-1" through "D-4").

4. **DISCUSSION OF RESULTS:**

- 4.1 Soils: The soil conditions as encountered within the test pits were generally uniform. The subsurface native soils generally consist of gravel (GP-GM) and sand (SP-SM, SP). The soil conditions could be considered favorable.
- 4.2 Percolation Rate: Percolation rates obtained within the leach line tests ranged from 0.15 to 0.57 minute per inch. This report recommends that leach line type disposal systems be utilized and provides recommendations for such systems.
- 4.3 Possible Sources of Error: Tests were performed in clean native soils. The material was generally uniform in nature. No other possible sources of error were noted.
- 4.4 Interpretation of Results: Results were generally as anticipated, based on the classification of the soils encountered.

5. **DESIGN:**

5.1 General Criteria

- 5.1.1 Percolation Rates: The percolation rates for the proposed leach line disposal fields varied from 0.15 to 0.57 minute per inch (mpi). Based on a most conservative percolation rate of 0.57 mpi, an application rate of 0.6 square feet of leaching area per gallon of daily effluent flow is appropriate as per San Bernardino County DEHS criteria.
- 5.1.2 The underlying soils generally contain less than 15 percent material passing the No. 200 U.S standard sieve based upon laboratory testing. The separation between the bottom of the proposed system and groundwater level will exceed 40 feet based on data described above and as required per San Bernardino County DEHS criteria.



5.1.3 The recommended application rates are based on DEHS criteria.

5.2 Convert Percolation Rates to Design Rates:

- a) Utilizing the EPA Design Manual graph, a percolation rate of 0.57 mpi translates to an application rate of 0.6 square feet of leaching area per gallon of daily effluent flow, or 600 square feet of absorption area for the estimated daily flow of 1,000 gallons of effluent for the crisis stabilization facility. Utilizing a septic tank capacity of 1,500 gallons, the design application rate for the leach lines is 40 square feet per 100 gallons of septic tank capacity. The final absorption area should be determined based on the actual gallons of effluent per day. Application rates per 100 gallons of daily flow are also provided in Enclosure "D-5".
- b) In order to obtain the required leaching area, the following table is derived from San Bernardino County DEHS Percolation Report Standards:

Depth of Gravel Below Leach Lines (ft.)	Width of Leach Line Trench (ft.)	Allowable Square Feet of Leaching Area per Foot of Leach Line
1	3	3
2	3	5
3	3	7

- c) Based on utilizing 2 feet of gravel below a 3-foot-wide leach line, 5 square feet of absorption area are available per foot of leach line. The percolation rate indicates that 600 square feet of absorption area are required. As such, 120 linear feet of leach line will be required. Two leach lines of 60 feet each can be utilized for this design. The final leach line length should be determined based on the amount of effluent expected. Additional leach line lengths are provided in Enclosure "D-6".

5.4 Special Criteria: No special criteria appear applicable to the site.



6. PLOT PER CURRENTLY ADOPTED UNIFORM PLUMBING CODE:

The proposed locations of the leach fields were provided by the client. Enclosure "A-2" shows the locations of the percolation testing performed for this report. Additional details, including the suggested layout of the system, should be referred to a civil engineer competent in leach field design.

7. GENERAL DISCUSSION, CONCLUSIONS, AND RECOMMENDATIONS:

- 7.1 Leach line disposal systems for the site should be constructed in accordance with current DEHS criteria and applicable portions of the Uniform Plumbing Code. All pertinent requirements of the Regional Water Quality Control Board should be met.
- 7.2 Based on information available to this firm, it is our opinion that the proposed system area contains sufficient area to handle the estimated liquid waste, provided proper design is achieved. It is our opinion that there is sufficient area at the site for system installation, in addition to a 100 percent expansion area.
- 7.3 If more than one leach line is needed for a disposal system at the site, the system should be designed by an engineer competent in disposal system design, or a properly installed distribution box should be utilized to balance flow and equalize the distribution of effluent to each leach line in lieu of such a design. Based upon the rates obtained and the anticipated usage of the site, sewage mounding should not be a concern.
- 7.4 A copy of this report should be submitted to DEHS for their review and assignment of the final application rate.
- 7.5 A copy of the San Bernardino County DEHS handout "Taking Care of Your Septic System" should be obtained and utilized.



We appreciate this opportunity to be of service and trust this report provides the necessary information. If questions concerning the content of this report or our recommendations arise at any time during the construction phase of this project, do not hesitate to contact this firm at your convenience.



Respectfully submitted,

C.H.J., INCORPORATED

V. John Romano, P.G. 9360
Consulting Project Geologist



Maihan Noorzay, G.E. 3085
Consulting Project Engineer

James F. Cooke, G.E. 3012
Consulting Geotechnical Engineer

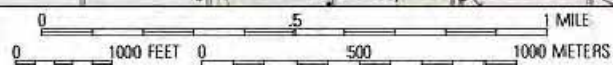
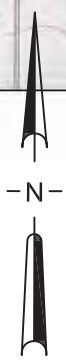
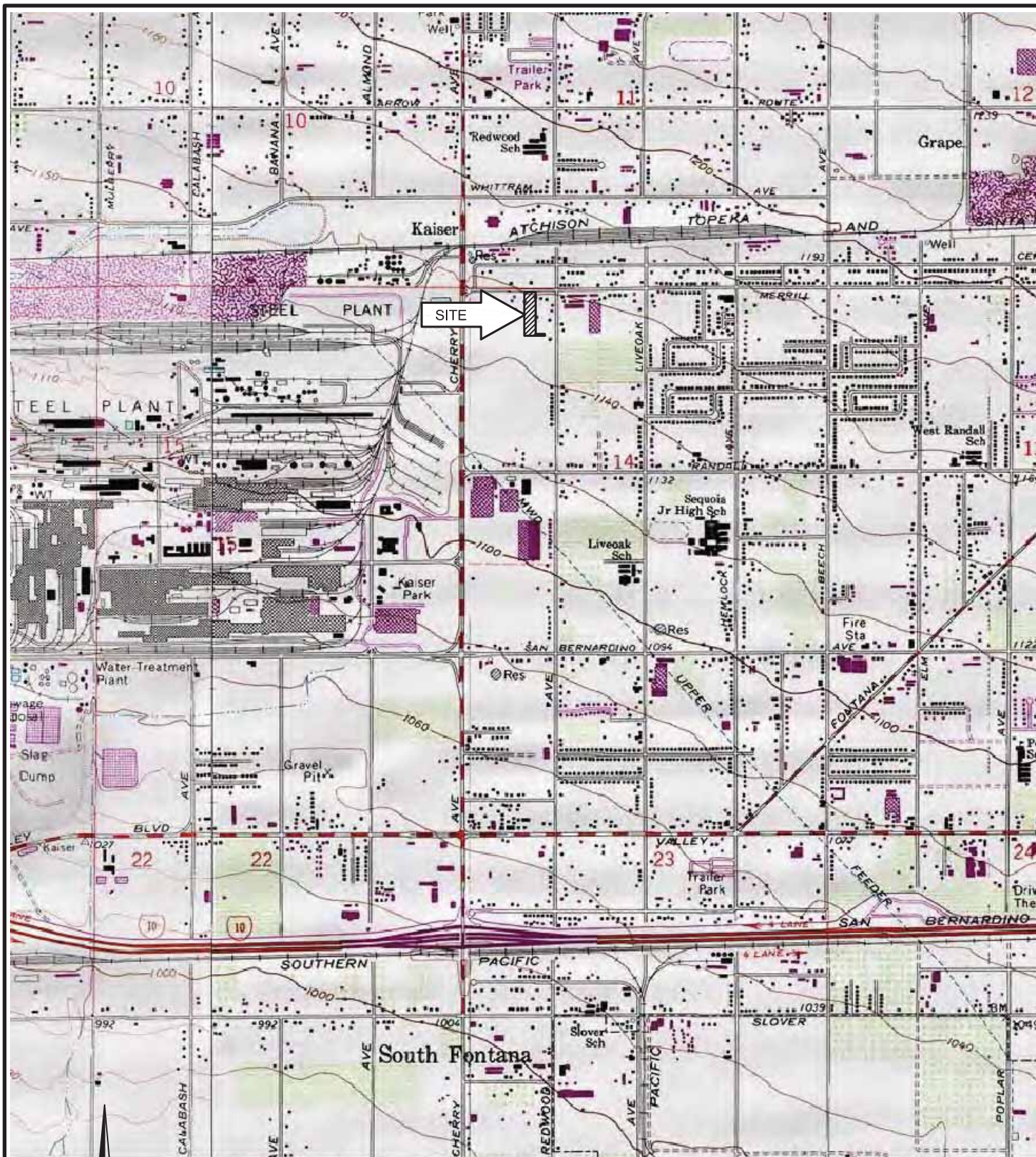


George Battey, III, P.E.
President

VJR/MN/JFC/GB:lb

Enclosures:

"A-1"	-	Index Map
"A-2"	-	Site Plan
"B"	-	Soil Classification Chart
"B-1" - "B-5"	-	Boring Logs
"B-6" - "B-8"	-	Test Pit Logs
"C-1"	-	Particle Size Distribution
"D-1" - "D-4"	-	Leach Line Percolation Test Data
"D-5"	-	Leach Line Test Data Summary
"D-6"	-	Required Leach Line Length



SCALE: 1" = 2000'

INDEX MAP

FOR:
COUNTY OF SAN BERNARDINO
DATE:
OCTOBER 2016

PERCOLATION INVESTIGATION
DEPARTMENT OF BEHAVIORAL HEALTH
CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
14677 MERRILL AVENUE
FONTANA, CALIFORNIA

ENCLOSURE
"A-1"
JOB NUMBER
G16-049-2



Site Plan Option 1
 DEPARTMENT OF BEHAVIORAL HEALTH CRISIS RESIDENTIAL TREATMENT FACILITY
 MERRILL AVENUE AND REDWOOD AVENUE, FONTANA, CA



LEGEND:

- B-4
 ⊕ EXPLORATORY BORING
- P-4
 ⊠ PERCOLATION TESTS

SITE PLAN

FOR:
 COUNTY OF SAN BERNARDINO

DATE:
 OCTOBER 2016

PERCOLATION INVESTIGATION
 DEPARTMENT OF BEHAVIORAL HEALTH
 CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
 14677 MERRILL AVENUE
 FONTANA, CALIFORNIA

ENCLOSURE
 "A-2"

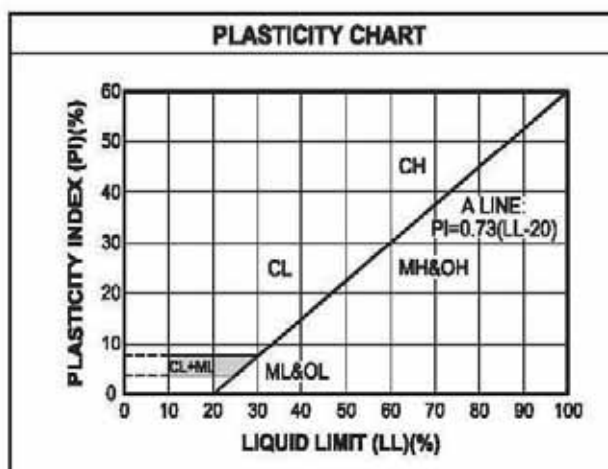
JOB NUMBER
 G16-049-2



UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size)		
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	
	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	
	GM	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	
	SM	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size)		
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils

LABORATORY CLASSIFICATION CRITERIA	
$GW \quad C_u = \frac{D_{60}}{D_{10}} \text{ greater than } 4; C_c = \frac{D_{30}^2}{D_{10} \times D_{60}} \text{ between } 1 \text{ and } 3$	
GP Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4
GC	Atterberg limits above "A" line with P.I. greater than 7
Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.	
$SW \quad C_u = \frac{D_{60}}{D_{10}} \text{ greater than } 6; C_c = \frac{D_{30}^2}{D_{10} \times D_{60}} \text{ between } 1 \text{ and } 3$	
SP Not meeting all gradation requirements for SW	
SM	Atterberg limits below "A" line or P.I. less than 4
SC	Atterberg limits above "A" line with P.I. greater than 7
Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.	
Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size). Coarse-grained soils are classified as follows: Less than 5 percent.....GW, GP, SW, SP More than 12 percent.....GM, GC, SM, SC 5 to 12 percent.....Borderline cases requiring dual symbols	



EXPLORATORY BORING NO. 1

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./3.25" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(GM) Silty Sandy Gravel, fine to coarse, with cobbles to 4", light yellowish brown	Native Auger Chatter	X		9 16 26	0.8	Dist.	Ring
5		(GW-GM) Well-graded Gravel, with silt and sand, gravel to 3", light yellowish brown			X		0.5		Cor., SA
				X		12 34 27	1.0	130	Ring
10		(GM) Silty Sandy Gravel, fine to coarse, gravel to 3", dark yellowish brown		X		20 50	2.0	129	Ring
					X		1.3		
15			Rock in shoe Hard drilling	X		50	2.4	121	Ring
20				X		34 50/5"	1.7	130	Ring
25			Re-sampled Hard drilling	X	X	50/3" 50/5"	N.R. 2.0	N.R. 126	Ring Ring
30		(SM) Silty Sand, fine to coarse, with gravel to 2", dark yellowish brown		X		30 50/3"	4.0	96	Ring
		END OF BORING NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, MODERATE CAVING							



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-1

EXPLORATORY BORING NO. 2

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./2.0" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SP-SM) Sand, fine to coarse, with gravel and cobbles to 5", dark yellowish brown	Native						
		(SM) Silty Sand, fine to coarse, with gravel and cobbles to 5", dark yellowish brown	Auger Chatter	X		4 6 12			Pass #200, SPT
		(SP-SM) Sand, fine to coarse, with gravel and cobbles to 5", dark yellowish brown	Rock in shoe		X		2.6		DS, MDC, SA
		(GP) Sandy Gravel, fine to coarse, with cobbles to 4", dark yellowish brown		X		13 10 9			Pass #200, SPT
10		(GP) Sandy Gravel, fine to coarse, with cobbles to 4", dark yellowish brown			X		1.7		
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		15 13 21			Pass #200, SPT
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		15 43 35			Pass #200, SPT
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		35 50/4"			Pass #200, SPT
25		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown	Hard drilling		X				
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		50/5"			Pass #200, SPT
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown							
		(GP-GM) Sandy Gravel, fine to coarse, with silt and cobbles to 4", dark yellowish brown		X		18 40 50/4"			Pass #200, SPT
30		(SM) Silty Sand, fine to coarse, with gravel to 2", brown		X					



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-2a

EXPLORATORY BORING NO. 2

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in./2.0" O.D.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

[illegible]

CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-2b

EXPLORATORY BORING NO. 3

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SP-SM) Poorly-graded Sand, fine to coarse, with silt and gravel to 3", light yellowish brown	Native				1.7		RV, SA, SE
		END OF BORING							
10		NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, SLIGHT CAVING							
15									
20									
25									
30									

11/11/16 10:11 AM 10/11/16 10:11 AM 10/11/16 10:11 AM



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-3

EXPLORATORY BORING NO. 4

Date Drilled: 10/11/16

Client: County of San Bernardino

Equipment: CME75 Truck Rig

Driving Weight / Drop / Sampler Size: 140lbs./30in.

Surface Elevation(ft): N/A

Logged by: GA

Measured Depth to Water(ft): N/A

[illegible]

CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-3 B-4

EXPLORATORY TEST PIT NO. P-1

Date Excavated: 10/18/16

Client: County of San Bernardino

Equipment: Rubber-Tire Backhoe

Bucket Size: 24'

Surface Elevation(ft): N/A

Logged by: GA

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SP) Sand, fine to coarse, with gravel to 2", yellowish brown	Native						
2									
3									
4									
		END OF TEST PIT							
5		NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, NO CAVING							
6									
7									
8									
9									



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. Enclosure
G16-049-2 B-5

EXPLORATORY TEST PIT NO. P-2

Date Excavated: 10/18/16

Client: County of San Bernardino

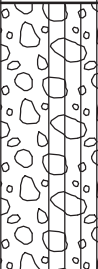

Equipment: Rubber-Tire Backhoe

Bucket Size: 24'

Surface Elevation(ft): N/A

Logged by: GA

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(GP-GM) Poorly-graded Gravel, with silt and sand, fine to coarse, brown	Native						SA
2		END OF TEST PIT							
3		NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, NO CAVING							
4									
5									
6									
7									
8									
9									



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. G16-049-2
Enclosure B-6

EXPLORATORY TEST PIT NO. P-3

Date Excavated: 10/18/16

Client: County of San Bernardino

Equipment: Rubber-Tire Backhoe

Bucket Size: 24'

Surface Elevation(ft): N/A

Logged by: GA

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SP-SM) Poorly-graded Sand, fine to coarse, with silt and gravel to 2", brown	Native						
2									
3									
4									
5		END OF TEST PIT							
6		NO REFUSAL, NO BEDROCK							
7		NO GROUNDWATER							
8		NO FILL, NO CAVING							
9									



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. G16-049-2
Enclosure B-7

EXPLORATORY TEST PIT NO. P-4

Date Excavated: 10/18/16

Client: County of San Bernardino

Equipment: Rubber-Tire Backhoe

Bucket Size: 24'

Surface Elevation(ft): N/A

Logged by: GA

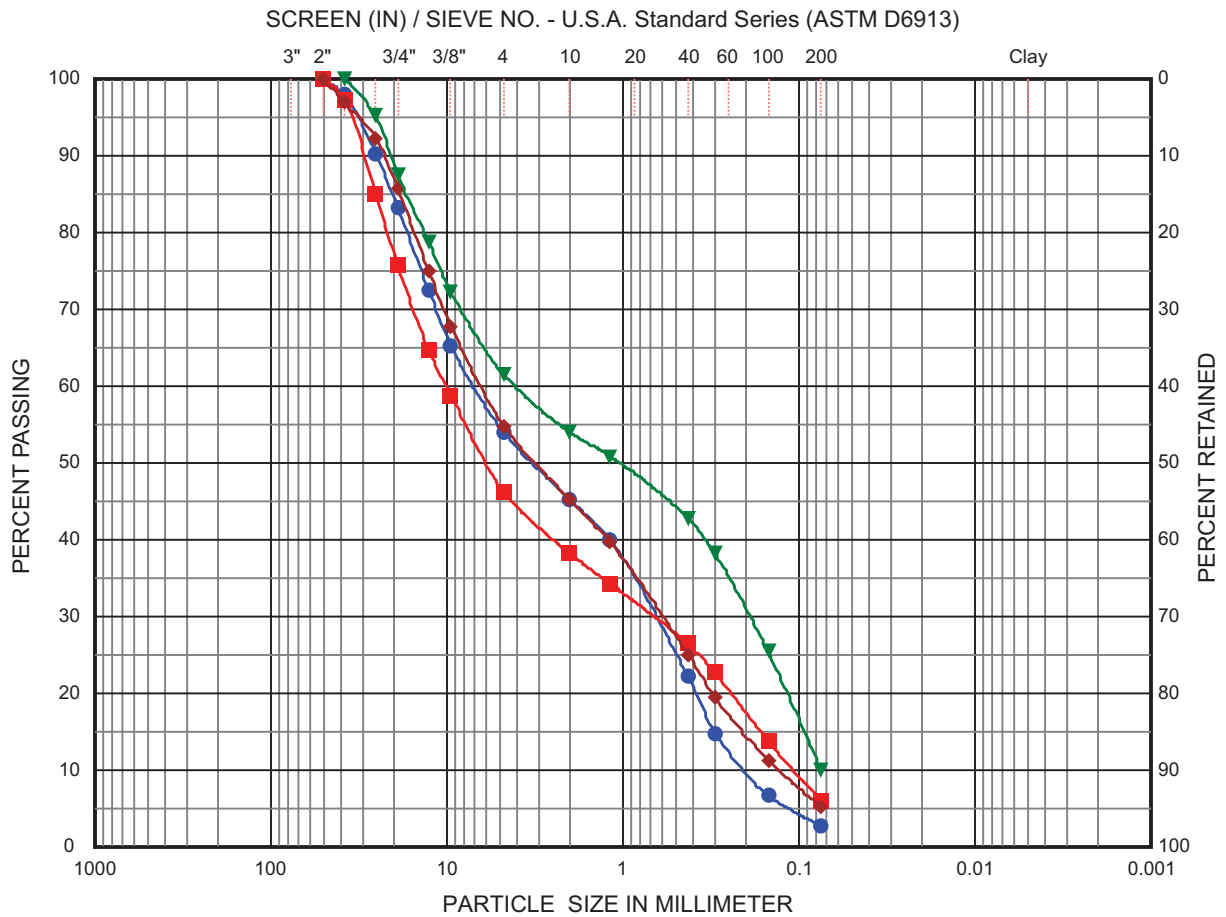
Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SP-SM) Poorly-graded Sand, fine to coarse, with silt and gravel to 2", brown	Native						SA
2		END OF TEST PIT							
3		NO REFUSAL, NO BEDROCK NO GROUNDWATER NO FILL, NO CAVING							
4									
5									
6									
7									
8									
9									



CRISIS STABILIZATION UNIT FACILITY (PROJECT NO. 7N25)
FONTANA, CALIFORNIA

Job No. G16-049-2
Enclosure B-8



Cobbles & Boulders	Gravel		Sand			Silt	Clay
	Coarse	Fine	Coarse	Medium	Fine		

	Boring No.	Depth	Gravel	Sand	Fines	Clay	D ₁₀	D ₃₀	D ₅₀	D ₆₀	C _u	C _c
●	P-1	4	46.0	51.2	2.8		0.2094	0.639	3.294	7.150	34.1	0.3
	(SP) Poorly-graded sand with gravel											
■	P-2	2	53.8	40.2	6.0		0.1078	0.663	6.061	10.118	93.9	0.4
	(GP-GM) Poorly-graded gravel with silt and sand											
◆	P-3	4	45.1	49.6	5.3		0.1310	0.590	3.171	6.479	49.5	0.4
	(SP-SM) Poorly-graded sand with silt and gravel											
▼	P-4	2	38.5	51.5	10.0		0.0751	0.189	1.043	4.141	55.2	0.1
	(SP-SM) Poorly-graded sand with silt and gravel											



PARTICLE SIZE DISTRIBUTION (ASTM D6913)

Project:	Crisis Stabilization Unit Facility (Project No. 7N25)					
Location:	14677 Merrill Avenue, Fontana, California					
Job Number:	G16-049-2	Engineer:	M.Noorzay	Enclosure:	C-1	



Enclosure "D-1"
Job No. G16-049-2

LEACH LINE PERCOLATION TEST DATA

Location:	Crisis Stabilization Unit Facility (Project No. 7N25), 14677 Merrill Avenue, Fontana, California		Test Hole Number:	P-1
Client:	County of San Bernardino, RESD - PMD		Job Number:	G16-049-2
Depth (ft):	4		Tested By:	GA
Size of Test Hole	12	in. deep	Date Excavated/Presoaked:	10/18/2016
	6	in. dia.	Date Tested:	10/18/2016
Soil Classification:	(SP) Poorly-graded sand with gravel			

PRESOAK PERIOD		
Time Interval		Amount of Water Used (Gallons)
Start:	12:24:00	5 Gallons
Stop:	12:27:38	
Interval:	0:03:38	

TEST PERIOD					
Time		Time Interval (h:mm:ss)	Water Level	Change in Water Level (in.)	Percolation Rate (min./in.)
Start:	12:28:18 PM	0:00:17	Start: 6"	1	0.28
Stop:	12:28:35 PM		Stop: 5"		
Start:	12:28:35 PM	0:00:17	Start: 5"	1	0.28
Stop:	12:28:52 PM		Stop: 4"		
Start:	12:31:35 PM	0:00:13	Start: 6"	1	0.22
Stop:	12:31:48 PM		Stop: 5"		
Start:	12:31:48 PM	0:00:17	Start: 5"	1	0.28
Stop:	12:32:05 PM		Stop: 4"		



Enclosure "D-2"
Job No. G16-049-2

LEACH LINE PERCOLATION TEST DATA

Location:	Crisis Stabilization Unit Facility (Project No. 7N25), 14677 Merrill Avenue, Fontana, California		Test Hole Number:	P-2
Client:	County of San Bernardino, RESD - PMD		Job Number:	G16-049-2
Depth (ft):	2		Tested By:	GA
Size of Test Hole	12	in. deep	Date Excavated/Presoaked:	10/18/2016
	6	in. dia.	Date Tested:	10/18/2016
Soil Classification:	(GP-GM) Poorly-graded gravel with silt and sand			

PRESOAK PERIOD		
Time Interval		Amount of Water Used (Gallons)
Start:	11:50:00	5 Gallons
Stop:	11:57:28	
Interval:	0:07:28	

TEST PERIOD					
Time		Time Interval (h:mm:ss)	Water Level	Change in Water Level (in.)	Percolation Rate (min./in.)
Start:	11:58:00 AM	0:00:23	Start: 6"	1	0.38
Stop:	11:58:23 AM		Stop: 5"		
Start:	11:58:23 AM	0:00:22	Start: 5"	1	0.37
Stop:	11:58:45 AM		Stop: 4"		
Start:	12:00:00 PM	0:00:22	Start: 6"	1	0.37
Stop:	12:00:22 PM		Stop: 5"		
Start:	12:00:22 PM	0:00:24	Start: 5"	1	0.40
Stop:	12:00:46 PM		Stop: 4"		



Enclosure "D-3"
Job No. G16-049-2

LEACH LINE PERCOLATION TEST DATA

Location:	Crisis Stabilization Unit Facility (Project No. 7N25), 14677 Merrill Avenue, Fontana, California		Test Hole Number:	P-3
Client:	County of San Bernardino, RESD - PMD		Job Number:	G16-049-2
Depth (ft):	4		Tested By:	GA
Size of Test Hole	12	in. deep	Date Excavated/Presoaked:	10/18/2016
	6	in. dia.	Date Tested:	10/18/2016
Soil Classification:	(SP-SM) Poorly-graded sand with silt and gravel			

PRESOAK PERIOD		
Time Interval		Amount of Water Used (Gallons)
Start:	9:46:00	5 Gallons
Stop:	9:49:53	
Interval:	0:03:53	

TEST PERIOD					
Time		Time Interval (h:mm:ss)	Water Level	Change in Water Level (in.)	Percolation Rate (min./in.)
Start:	9:51:00 AM	0:00:10	Start: 6"	1	0.17
Stop:	9:51:10 AM		Stop: 5"		
Start:	9:51:10 AM	0:00:25	Start: 5"	1	0.42
Stop:	9:51:35 AM		Stop: 4"		
Start:	9:53:00 AM	0:00:09	Start: 6"	1	0.15
Stop:	9:53:09 AM		Stop: 5"		
Start:	9:53:09 AM	0:00:15	Start: 5"	1	0.25
Stop:	9:53:24 AM		Stop: 4"		



Enclosure "D-4"
Job No. G16-049-2

LEACH LINE PERCOLATION TEST DATA

Location:	Crisis Stabilization Unit Facility (Project No. 7N25), 14677 Merrill Avenue, Fontana, California		Test Hole Number:	P-4
Client:	County of San Bernardino, RESD - PMD		Job Number:	G16-049-2
Depth (ft):	2		Tested By:	GA
Size of Test Hole	12	in. deep	Date Excavated/Presoaked:	10/18/2016
	6	in. dia.	Date Tested:	10/18/2016
Soil Classification:	(SP-SM) Poorly-graded sand with silt and gravel			

PRESOAK PERIOD		
Time Interval		Amount of Water Used (Gallons)
Start:	9:22:00	5 Gallons
Stop:	9:30:51	
Interval:	0:08:51	

TEST PERIOD					
Time		Time Interval (h:mm:ss)	Water Level	Change in Water Level (in.)	Percolation Rate (min./in.)
Start:	9:32:00 AM	0:00:19	Start: 6"	1	0.32
Stop:	9:32:19 AM		Stop: 5"		
Start:	9:32:19 AM	0:00:29	Start: 5"	1	0.48
Stop:	9:32:48 AM		Stop: 4"		
Start:	9:33:00 AM	0:00:33	Start: 6"	1	0.55
Stop:	9:33:33 AM		Stop: 5"		
Start:	9:33:33 AM	0:00:34	Start: 5"	1	0.57
Stop:	9:34:07 AM		Stop: 4"		



Enclosure "D-5"
Job No. G16-049-2

LEACH LINE TEST DATA SUMMARY

Test Hole No.	Test Depth (ft.)	Percolation Rate* (mpi)	Application Rate** (sq. ft./100 gal. septic tank capacity)
P-1	4.0	0.28	40
P-2	2.0	0.40	40
P-3	4.0	0.42	40
P-4	2.0	0.57	40

* Percolation rates are based on the most conservative rates from each hole.

** Application rates are based on an absorption area of 600 square feet and 1,500-gallon septic tank capacity.



Enclosure "D-6"
Job No. G16-049-2

REQUIRED LEACH LINE LENGTH

Design Sewage Application Rate: 40 sf/100 Gallon Septic Tank Capacity

Anticipated Flow (gallons/day)	Septic Tank Capacity (gallons)	Absorption Area Required (square feet)	Required Leach Line Length (3-Foot-Wide Trench)		
			1-Foot Rock	2-Foot Rock	3-Foot Rock
			Allowable Square Feet of Leaching Area per Foot of Leach Line		
			3	5	7
1,000	1,500	600	200	120	86

Notes:

1. Rock depths are below pipe.

Maximum length of single leach line - 100 feet

Minimum spacing of 3-foot-wide trenches:

- 7 feet on center for 1-foot rock below pipe
- 9 feet on center for 2-foot rock below pipe
- 11 feet on center for 3-foot rock below pipe

2. For assumed 1,500-gallon tank:

1 Foot of Rock		2 Feet of Rock		3 Feet of Rock	
No. of Lines	Length of Line (ft.)	No. of Lines	Length of Line (ft.)	No. of Lines	Length of Line (ft.)
2	100	2	60	2	43
4	50	3	40	3	29



C.H.J. Incorporated

1355 E. Cooley Drive, Colton, CA 92324 • Phone (909) 824-7210 • Fax (909) 824-7209
15345 Anacapa Road, Suite D, Victorville, CA 92392 • Phone (760) 243-0506 • Fax (760) 243-1225
77-564A Country Club Drive, Suite 122, Palm Desert, CA 92211 • Phone (760) 772-8234 • Fax (909) 824-7209

August 17, 2016
Job No. G16-030-9

County of San Bernardino
Project Management Division
385 North Arrowhead Avenue, Third Floor
San Bernardino, California 92415
Attention: Mr. Albert Soliz

Subject: **PHASE I ENVIRONMENTAL SITE ASSESSMENT
14677 MERRILL AVENUE
APNS 0231-021-03, -04, -06, -44, AND -45
FONTANA, CALIFORNIA**

Dear Mr. Soliz:

Attached please find the Phase I Environmental Site Assessment report prepared for the ± 2.5 -acre subject site, adjacent to the south of Merrill Avenue east of Cherry Avenue at 14677 Merrill Avenue in Fontana, California.

We appreciate the opportunity to provide environmental assessment services for this project. If you should have questions or comments concerning this report, please contact this firm at your convenience.

Sincerely,
CHJ INCORPORATED

George Battey III, P.E.
President



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
14677 MERRILL AVENUE
APNS 0231-021-03, -04, -06, -44, AND -45
FONTANA, CALIFORNIA**

**PREPARED FOR
COUNTY OF SAN BERNARDINO
PROJECT MANAGEMENT DIVISION
PROJECT NO. 7N25**

BY C.H.J., INCORPORATED

**JOB NO. G16-030-9
AUGUST 17, 2016**



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PHASE I ENVIRONMENTAL SITE ASSESSMENT
14677 MERRILL AVENUE
APNS 0231-021-03, -04, -06, -44, AND -45
FONTANA, CALIFORNIA

1.0 SUMMARY

The subject site is located adjacent to the south of Merrill Avenue, approximately 150 feet west of Redwood Avenue, in the unincorporated area of Fontana, California. The unmarked address associated with one of the site parcels is 14677 Merrill Avenue. The site consists of five parcels, totaling approximately 2.5 acres, San Bernardino County APNs 0231-021-03, -04, -44, -45, and the majority of parcel -06. The site was vacant and undeveloped at the time of the site assessment. An Index Map and Site Map are provided as Enclosures A-1, and A-2.

A review of historical records indicated that the subject site parcels were occupied by one or more residences and associated outbuildings from prior to 1938 through approximately the mid-1970s. All structures were removed prior to 1985 and the site has remained vacant. The site parcels are located within a former agricultural area; however, the site parcels and nearby parcels along the south side of Merrill Avenue were developed commercially or residentially by 1938. No active agricultural use was identified onsite in available historical records.

Based on findings from our site reconnaissance, aerial photograph review, regulatory database research, and review of records available to date, no evidence has been found to indicate that the site currently has or in the past has had significant problems associated with hazardous waste, hazardous materials, or petroleum products. Potential offsite sources of contamination identified on regulatory databases were not determined to have the potential to cause significant impacts to the subject site due to the distance and relative hydraulic position.

Based upon the historical and current site conditions as indicated through research of the sources described within this report, no recognized environmental conditions (RECs), as defined in ASTM E 1527-13, were identified in connection with the property.



2.0 INTRODUCTION

2.1 Purpose

A Phase I Environmental Site Assessment (Phase I) was conducted for the subject site by CHJ Consultants (CHJ). The purpose of the Phase I was to identify, to the extent feasible pursuant to the applied American Society of Testing and Materials (ASTM) Standard, RECs in connection with the subject site. An REC is defined in the applicable ASTM Standard as follows:

"The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

The contents of this report are intended to address general lender guidelines for site assessments, as well as specific client concerns.

2.2 Scope of Services

The scope of work for the Phase I was specified in our proposal letter, dated June 24, 2016. CHJ has conducted this Phase I in general conformance with the requirements of the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13.

In order to conduct this investigation, the following services were provided:

- Research of recent federal, state, and local lists of known or potentially hazardous waste sites via an electronic database search
- Review of historical aerial photographs, topographic maps, and city directories to identify prior land uses
- Tier 1 vapor encroachment screen
- Reconnaissance of the property and adjacent areas to assess current conditions and visibly identify areas of potential contamination
- A review of records on file with pertinent government agencies including, but not limited to, the San Bernardino County Fire Department Hazardous Materials Division



- A search of recorded environmental cleanup liens and Activity and Use Limitations
- Owner/tenant interview regarding the current and/or past usage of the site
- Review of USGS topographic maps and characterization of general geologic and hydrogeologic setting of the subject site

2.3 User Reliance

This report, which is the work product of CHJ, has been produced in accordance with a specific contract between CHJ and the County of San Bernardino.

This report is the work product for the sole use and benefit of the contracting Client and any third parties identified below. It does not create any rights or benefits to parties other than the Client, the identified third parties, and CHJ, except such other rights as are specifically called for herein.

CHJ consents to the release of this report to the following third parties in addition to the County of San Bernardino and/or its assignee and its owners and officers: No third parties were identified.

3.0 USER PROVIDED INFORMATION

CHJ understands that the County of San Bernardino seeks to qualify for one of the landowner liability protections (LLPs) to CERCLA liability by contracting this Phase I Site Assessment, satisfying all appropriate inquiries in compliance with EPA AAI Rule (USEPA, 2012).

The standard ASTM 1527-13 User Questionnaire was completed by Ms. Jennifer Goodell of the San Bernardino County Real Estate Services Department.

3.1 Environmental Cleanup Liens and Activity and Use Limitations

An Environmental Lien Search Report was compiled by Environmental Data Resources (EDR). The report indicated that environmental liens or other activity and use limitations (AULs) were not identified for the subject site parcel. The complete Environmental Lien Search Report is attached as Enclosure B. The following deeds were identified: Grant Deeds for parcels -03 and -06, dated in December of 2005, indicating title transferred from Larry E. and Shirley Fay Cox as individuals to Larry E. and Shirley Fay Cox as Trustees of the L. and S. Cox Revocable Trust; a Grant Deed for parcels -04 and -44 and a Grant



Deed for parcel -45, both dated in December of 2008, indicating title transferred from various individuals to Larry E. and Shirley Fay Cox as Trustees of the L. and S. Cox Revocable Trust. The User also reported that an August 4, 2016, search of the recorded land title records conducted by Orange Coast Title Company did not identify any environmental liens or AULs.

3.2 Specialized Knowledge

No specialized knowledge or experience related to the use of chemicals or processes on the subject site or other nearby properties was reported.

3.3 Valuation Reduction for Environmental Issues

Fair market value of the property is reportedly reflected in the transaction, as indicated by a recent appraisal dated July 27, 2016.

3.4 Commonly Known or Reasonably Ascertainable Information

No knowledge of site history, specific chemicals now or previously present on the property, spills or releases of hazardous materials or chemicals on the property, or environmental cleanups was reported.

3.5 Obvious Indicators of the Presence of Contamination

The User reported no obvious indicators of the possible presence of releases at the subject site.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

County, State, and Federal listings were compiled and searched for this Phase I by a nationwide regulatory agency database company, EDR, and reviewed by CHJ. The listings/databases were searched for sites located within a 1 mile approximate minimum search distance (or less) from the subject site in accordance with the standards promulgated by the ASTM for Phase I Environmental Site Assessments (ASTM Standard E 1527-13). The actual distance searched for each listing/database is indicated within the information provided in the EDR report included as Enclosure C of this report. Additional explanations of the federal and state listings/databases, including the current update and release of information dates for each database, are provided in the portion of the EDR report entitled "Government Records Searched/Data Currency Tracking". Relevant discussions concerning "unmapped" sites, if any, are presented within the respective sections.



4.1.1 Local Agencies

EDR conducted a search of the County of San Bernardino Fire Department's HMD permitted facilities. This listing includes USTs, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil handlers/generators. The list was checked for the inclusion of the subject site and facilities located within a 1/4-mile radius of the subject site. The existence of permits does not indicate the presence of contamination. Permitted facilities are inspected on a regular basis. One adjacent permitted facility, TEC of California, was identified upgradient of the subject site with active small quantity generator and hazardous materials handler permits. One adjacent permitted facility, Morrow Equipment, was identified cross gradient of the subject site with active hazardous materials handler and conditionally exempt small quantity generator permits. Additional inactive special handler and special generator permits were identified adjacent to the south (downgradient). Three additional active and four additional inactive permitted facilities were identified upgradient of the subject site. Six additional active and four additional inactive permitted facilities were identified cross or downgradient of the subject site.

4.1.2 State of California

4.1.2.1 State Response Sites are listed on the RESPONSE database. These are confirmed release sites of high priority and high potential risk where the Department of Toxic Substances Control (DTSC) is involved in the remediation, either in a lead or oversight role. The list is the state equivalent of the Federal NPL database. This database was searched by EDR to check for inclusion of the subject site and facilities located within a 1-mile minimum search distance of the subject site. No RESPONSE sites were identified within a 1-mile radius.

4.1.2.2 The Department of Toxic Substances Control's (DTSC) Site Mitigation and Brownfields Reuse Program's EnviroStor database (ENVIROSTOR), includes sites with known contamination or where further investigation may be required. The list includes Federal Superfund (NPL) sites, State Response (Military Facilities and State Superfund), Voluntary Cleanup, and School Sites. The ENVIROSTOR database replaces the CAL-SITES database, previously updated with similar information by the DTSC. This database was searched by EDR to check for inclusion of the subject site and facilities located within a 1-mile minimum search distance of the subject site. Two ENVIROSTOR sites were identified. One cross gradient site between 1/4 and 1/2 mile to the northwest, Advanced Steel Recovery, which is a voluntary cleanup site with soil contamination of PCBs and metals including lead, was identified. Master Halco, Inc., located approximately 1/4 mile downgradient to the southwest, is an



active tiered permit remediation site with zinc contamination in the soil. Kaiser Steel, located west of the subject site, is on the ENVIROSTOR database; however, the specific target areas did not map within the 1 mile radius of the EDR report. There are 12 RCRA hazardous waste management units in four Operable Units within the former Kaiser Steel area, which extended to the west of Cherry Avenue. Numerous ongoing land use restrictions and post closure permit requirements are in place for the facility (Lister, 1996). However, any remaining contamination is not expected to impact the subject site due to the distance and relative hydraulic position (cross gradient to downgradient).

4.1.2.3 The Solid Waste Information System (SWIS) database maintained by the California Integrated Waste Management Board, was searched by EDR for landfills and/or transfer stations within a 1/2-mile minimum search distance of the subject site. No landfill or transfer stations were identified.

4.1.2.4 The EDR report includes research of state and tribal leaking storage tank lists: The Leaking Underground Fuel Tank Report (LUST) published by the State Water Resources Control Board on the Geotracker database; the Indian LUST Region 9 Database, published by the EPA, and the State Water Resources Control Board Spills, Leaks, Investigation and Cleanup Cost Recovery Listing (SLIC). These databases were searched by EDR to check for the inclusion of the subject site and facilities located within a 1/2-mile minimum search distance of the subject site. Two LUST cases were identified between 1/4 and 1/2 mile north northwest of the subject site. Both sites were soil contamination and have case closed status. Due to the distance and status of the LUST cases, no impact to the subject site is anticipated.

4.1.2.5 The EDR report includes research of state and tribal registered storage tank lists: The California UST Registrations database, the Indian UST Region 9 Database, and the Cal EPA Aboveground Petroleum Storage Tank Facilities database, as well as several historical UST databases: the Facility Inventory Database (CA FID UST, dated October 1994), the Statewide Environmental Evaluation and Planning System (SWEEPS UST, dated June 1994), and the Hazardous Substance Storage Container Database (HIST UST, dated October 1990). These databases were searched by EDR and reviewed by CHJ to check for the inclusion of the subject site and facilities within a 1/4-mile minimum search distance of the subject site. Three current USTs and three current ASTs were identified between 1/8 and 1/4 mile of the subject site. One site with historical USTs was identified nearly 1/4 mile northwest of the subject site.



4.1.2.6 The Voluntary Cleanup Program Properties (VCP) database, provided by the Department of Toxic Substances Control, was reviewed by EDR to search for the subject site and sites within a 1/2-mile minimum search distance of the subject site. The VCP database identifies low threat level properties with either confirmed or unconfirmed releases, where the project proponents have requested that DTSC oversee any investigation or cleanup activities. The two ENVIROSTOR sites discussed above, Advanced Steel Recovery and Master Halco, Inc., are VCP facilities.

4.1.2.7 The US BROWNFIELDS database, compiled by the EPA, contains information reported by grant recipients on brownfields properties assessed or cleaned up with grant funding. The subject site and a 1/2 mile minimum search distance was searched on the US BROWNFIELDS database. No US BROWNFIELDS sites were identified.

4.1.3 Federal Government

4.1.3.1 The United States Environmental Protection Agency (USEPA) National Priorities List (NPL) or Superfund Listing and the Delisted NPL database, list all sites receiving or potentially eligible to receive Superfund investigation and/or remediation assistance in California, or sites removed from this list in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) criteria. The NPL database was searched by EDR for facilities within a 1-mile minimum search distance of the subject site. No NPL or Delisted NPL facilities were identified.

4.1.3.2 The Superfund Enterprise Management System (SEMS) database, formerly known as CERCLIS, lists sites either on, or proposed to be included on, the NPL and sites in the screening and assessment phase for possible inclusion on the NPL. The SEMS-ARCHIVE list, formerly known as CERCLIS No Further Remedial Action Planned, lists archived sites which have been removed from the SEMS list based on the completion of a site assessment and the determination that the site is not a potential NPL site. The SEMS databases were searched by EDR for facilities within a 1/2-mile minimum search distance of the subject site. No SEMS or SEMS-ARCHIVE sites were identified.

4.1.3.3 EDR conducted a review of the USEPA RCRA Corrective Action Sites (CORRACTS) database, to identify facilities within a 1-mile minimum search distance of the subject site. CORRACTS facilities are those that are undergoing corrective action as a result of a release of hazardous waste or constituents into the environment from a RCRA facility. No CORRACTS facilities were identified.



4.1.3.4 The USEPA Resource Conservation and Recovery Act Information (RCRA) is a comprehensive information system that includes selective information on sites which generate, transport, treat, and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) of 1976. This database was searched by EDR for treatment, storage, or disposal (TSD) facilities within a 1/2-mile minimum search distance of the subject site. TSD facilities were not identified within the specified search radius.

The RCRA listings were also searched by EDR for small quantity generators (SQG), large quantity generators (LQG), and conditionally exempt small quantity generators (CESQG) of hazardous waste within a 1/4-mile minimum search distance of the subject site. No LQGs or CESQGs were identified within 1/4 mile. Three SQGs were identified within 1/4 mile, including the adjacent Morrow Equipment and TCI Leasing, west of the site on Merrill Avenue. The third SQG, dated in 1996, Koppers Company, Inc., 1/4 mile northwest of the site on Cherry Avenue, also listed with historical LQG and historical USTs, is not an active site.

4.1.3.5 The United States Engineering Controls Sites List and the United States Institutional Controls Sites List are compiled by the EPA and were reviewed by EDR for facilities within a 1/2-mile minimum search distance of the site. US ENG CONTROLS is a listing of sites with engineering controls in place, including various physical measures to create pathway elimination of regulated substances. US INST CONTROLS is a listing of sites with institutional controls in place, including administrative measures and post remediation care requirements intended to prevent exposure to contaminants remaining on site. No listings were identified within 1/2 mile of the subject site.

4.1.3.6 The USEPA Emergency Response Notification System (ERNS) database contains information regarding spills and reported releases of oil and hazardous substances. This database was searched by EDR to check for the inclusion of the subject site. The subject site was not identified on this database.

4.1.3.7 Federal Emergency Management Agency flood zone data (2003 and 2011) was depicted on the EDR Overview and Detail Maps. The subject site, as well as adjacent land to the north and to the south between Redwood, Cherry, and Randall, is mapped within a 500-year flood zone.



4.1.4 Unmapped Facilities

EDR did not identify facilities that were considered to be unmappable due to partial or inadequate address information.

4.1.5 Vapor Encroachment Screen

A search of available environmental records was conducted by EDR. The Vapor Encroachment Screen report is included as Enclosure D. The report was designed to assist parties seeking to meet the search requirements of Tier 1 of the ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (E 2600-10). The goal of conducting a Vapor Encroachment Screen on a property is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of contaminant of concern (COC) vapors in the sub-surface of the target property caused by the release of vapors from contaminated soil or groundwater either on or near the target property. ASTM 1527-13 requires an E 2600 Tier 1 VEC Screening, or equivalent, to address vapor migration.

There were no database findings within the specified search distances that were found to be vapor encroachment conditions. Identified database findings are located in cross gradient and downgradient positions relative to the subject site.

4.2 Additional Environmental Records Sources

4.2.1 County of San Bernardino, Fire Department, Hazardous Materials Division

A request for records search for the subject site was submitted to the County HMD on August 4, 2016. The review includes any recorded information regarding ASTs, USTs, hazardous waste generators, hazardous material handlers, site remediation, and emergency response records specific to the site. The presence of underground tanks, hazardous waste generators, and hazardous material handlers does not necessarily indicate the existence of contamination. However, this information may indicate if there are potential contamination sources at the subject site or in the vicinity of the subject site.

A response letter indicating that no records were found was received from the HMD on August 17, 2016. A copy of the Certified Record Search Findings letter is included as Enclosure E.

4.3 Physical Setting Sources

4.3.1 General Geologic and Hydrologic Setting

The site is within the Fontana Plain, which extends from the mouth of the Lytle Creek canyon to the Jurupa Mountains (Dutcher and Garret, 1963). According to published geologic mapping the site is



underlain by young, Holocene to Late Pleistocene-age alluvial fan deposits, consisting of unconsolidated cobbly and bouldery alluvium of the Lytle Creek fan (Morton, 2003).

The subject site lies within the Chino Hydrologic Subarea of the Santa Ana Drainage Province (Western Municipal Water District, 2015). The depth to groundwater in State Well No. 01S/06W-23G(01), City of Ontario Well No. 38, located within approximately 1 1/4 mile south southeast of the subject site, was 377 feet bgs on November 1, 2015. Depth to groundwater contours mapped for the subject site vicinity in 2012 indicate depths of over 400 feet. Groundwater elevation contours indicate that the groundwater gradient in the subject property vicinity is to the southwest (Wildermuth, 2012).

4.3.2 Site Topography

The subject site is located within Section 14 of Township 1 South, Range 6 West, of the San Bernardino Baseline and Meridian in San Bernardino County. The United States Geological Survey (USGS), Fontana 7.5 Minute Quadrangle, indicated an average elevation of approximately 1,155 feet amsl on the site. The site is generally planar with a slight downward slope from Merrill Avenue toward the south.

4.4 Historical Use Information

4.4.1 Aerial Photograph Review

Aerial photographs taken in 1938, 1949, 1953, 1959, 1966, 1975, 1985, 1990, 1994, 2005, 2006, 2009, 2010, and 2012 were compiled by EDR and reviewed by CHJ. The specific coverage by EDR is provided as Enclosure F. Our review of these photographs indicated that the subject site was occupied by at least one residential structure prior to 1938 through at least 1975, with as many as four residences and several outbuildings onsite throughout the 1950s and 1960s. The site vicinity to the north and south was agricultural in use (groves and vineyards) in early photographs; however, several parcels along the south side of Merrill Avenue were either residential or commercial by 1938.

Review of the 1938 photograph indicated that the subject site was occupied by one residential type structure in the northwest corner. The remaining site area, as well as adjacent land to the west, was vacant and undeveloped. A dirt road originating further to the west crossed the adjacent parcels and the southern portion of the subject site. There appeared to be heavy commercial use of the property further to the west, along Cherry Avenue, possibly related to the agricultural use of many parcels in the vicinity. Several warehouse type buildings were noted in the central portion of the property. Primarily groves appeared to be planted north of the subject site, and a mixture of groves and vineyards appeared to be planted south of the site. A residence was noted within the agricultural parcel adjacent to the south of



the site. The adjacent properties to the east of the site were occupied by residential type structures. The properties immediately east of Redwood Avenue appeared to be commercially developed, with long warehouse type structures noted. The rail line north of the site was developed.

Review of the 1949 photograph indicated an additional residential structure on the northeast corner of the site along Merrill Avenue and a few scattered outbuildings in the central and southern portions of the site. Additional buildings appeared to be added to the existing two residential properties adjacent to the east of the site. The warehouses were removed from the property to the west adjacent to Cherry Avenue, and an additional residential structure and outbuildings were noted along Merrill Avenue west of the site (appears to be consistent with the house/office structure of the current Meza Pallets at 14619 Merrill Avenue). Several of the groves on small parcels north of the subject site were removed. Land south of the site appeared to remain agricultural in use. The rail spurs west of Cherry Avenue leading to Kaiser Steel (known to operate during WWII) were also noted.

Review of the 1953 photograph indicated several additional structures on the subject site. The total number of residences appears to be four with several outbuildings. Dirt roads connect all areas of the site, and mature trees are primarily in the northern portion of the site. The majority of the remaining groves had been removed north of Merrill Avenue, with most of the lots being developed residentially.

Review of the 1959 photograph indicated no significant changes for the subject site or adjacent parcels.

The 1966 photograph is not as clear as previous photographs; however, the same onsite structures can be seen. No significant changes were noted on adjacent properties.

Review of the 1975 photograph indicated the removal of several onsite structures. There appeared to be one residence remaining in the northeast corner (parcel -06) and one or two outbuildings, as well as several trees. No significant changes were noted on adjacent properties.

Review of the 1985 photograph indicated that no structures or trees remained on the subject site. Adjacent parcels remained vacant to the north and west and residential/vacant to the east and south. Previously agricultural land to the south appeared to be vacant and disced for weed abatement.

Review of the 1990 photograph indicated no significant changes for the subject site. Residential tract development was noted east and southeast of the site, east of Redwood Avenue. The metal warehouse



building associated with the current Morrow Equipment at 14645 Merrill Avenue was noted adjacent to the west of the site. Meza Pallets appeared to be in operation adjacent to the west of Morrow Equipment.

Review of the 1994 photograph indicated no significant changes for the subject site. The previously agricultural area south and southwest of the site appeared to be graded. The residence adjacent to the south along Redwood Avenue remained.

Review of the 2005 photograph indicated no significant changes for the subject site. Industrial warehouse type structures were noted adjacent to the south and southwest of the subject site and north of the site across Merrill Avenue. The Fontana Speedway was noted west of Cherry Avenue.

Review of the 2006 through 2012 photographs no significant changes for the subject site or adjacent properties.

Based on Google Earth imagery, it is apparent that the occupants of the adjacent residential parcel to the south along Redwood Avenue (APN 0231-021-50) have been utilizing the southeastern portion of subject site parcel 0231-021-03 that extends to Redwood Avenue as a driveway and access to the rear portion of that parcel.

4.4.2 Topographic Map Review

Historical topographic maps published by the USGS for the subject site and vicinity were obtained from EDR. The San Bernardino Quadrangle (scale 1:62,500), dated 1896, 1898 and 1901, and the Fontana Quadrangle (scale 1:24,000), dated 1943, 1953, 1967, 1973 and 1980 were reviewed for information pertaining to historical usage of the subject site. The topographic maps are included in Enclosure G. EDR utilized the adjacent Guasti Quadrangle, as necessary, with typically the same source year, to achieve coverage of the site vicinity.

The 1886-1901 maps were identical and indicated that the subject site and vicinity were vacant and undeveloped. Merrill Avenue and other area roads were mapped. The Atchison Topeka Railroad was mapped less than 1/4 mile north of Merrill Avenue.

Review of the 1943 topographic map indicated that the roads in the site vicinity were developed similar to the current alignment. One residential type structure was mapped on the northwest corner of the



subject site. Several residential structures were mapped in the site vicinity along both sides of Merrill Avenue and along Redwood Avenue, including adjacent to the south of the site.

Review of the 1953 topographic map indicated three additional residential type structures on the subject site, including one in the northern portion of the site and two in the east central portion of the site. Three residential type structures were mapped adjacent to the east, along Redwood Avenue. 1953 was the first map with agricultural use mapped. Several parcels in the site vicinity were mapped as agricultural, including groves and vineyards. The Kaiser Steel Plant was developed west of Cherry Avenue.

Review of the 1967 topographic map indicated three residential type structures on the subject site, including two in the northern portion of the site and one on the west central portion of the site. Fewer agricultural parcels remained in the site vicinity, including a vineyard adjacent to the southeast.

Review of the 1973 topographic map indicated no significant changes for the subject site. Commercial development was noted near the site, east of Redwood Avenue, where several large warehouse type structures were mapped.

Review of the 1980 topographic map indicated no significant changes for the subject site or immediate vicinity.

4.4.3 Sanborn Fire Insurance Map Review

A search of historical Sanborn Fire Insurance Map coverage was conducted by EDR. The subject site area is not located near a densely-developed urban center, and is therefore unmapped. Sanborn Fire Insurance Maps for the subject site and immediate vicinity were not available.

4.4.4 City Directory Review

EDR provided a City Directory Abstract based on the following research: City directories including city, cross reference, and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2013. References included Haines & Co Publishers, GTE Street Address Directory, General Telephone Co. of California, Pacific Telephone/Telegraph Co., Luskey Brothers & Co. Publishers, Associated Telephone Company Limited, Southern California Telephone Company, San Bernardino Directory Co. Publishers, Los Angeles Directory Co. Publishers, Cole Information Service, and SBC Pacific Bell. The EDR report compiles information gathered in this



review by geocoding the latitude and longitude of target property and gathering information about properties within approximately 660 feet of the target property (EDR, 2016).

The site address of 14677 Merrill Avenue was listed in 1955, 1965, and 1975 with residential occupants. Based on mapping tools available on Google Earth and known addresses of adjacent parcels, residential listings in 1960 and 1965 for 14665 Merrill Avenue were also determined to represent an onsite address.

Primarily residential listings on area streets were listed as early as 1955, with adjacent listings to the east and south beginning in 1960. Addresses to the southeast at 8956 Redwood Avenue and south at 9008 Redwood Avenue have listings for Larry Cox, the current owner of the subject site. Based on the San Bernardino County online Property Information Management System, the Cox's are the current owners of 8956 Redwood Avenue.

Business listings included Avilas Garden Art adjacent to the north of the site at 14608 Merrill Avenue, Morrow Crane Co. adjacent to the west, and Meza Pallets west of Morrow Equipment, all beginning in 1990.

5.0 SITE DESCRIPTION

5.1 Location

The subject site is located adjacent to the south of Merrill Avenue, approximately 150 feet west of Redwood Avenue, in Fontana, California. The unmarked address associated with one of the site parcels is 14677 Merrill Avenue. The site consists of five parcels, totaling approximately 2.5 acres, San Bernardino County APNs 0231-021-03, -04, -44, -45, and the majority of parcel -06. An Index Map and Site Maps are provided as Enclosures A-1 and A-2, respectively.

5.2 Site and Vicinity General Characteristics

Based on the City of Fontana Zoning Map, as reviewed online on the Fontana Planning Department website, the subject site and vicinity are located within a light industrial zone.



5.3 Current Uses of the Property

At the time of the Phase I investigation, the subject site consisted of vacant and undeveloped land with low weeds. Current uses of the subject site do not involve the use, storage, generation, treatment, or disposal of hazardous substances or petroleum products.

5.4 Past Uses of the Property

Review of historical aerial photographs dating to 1938, topographic maps dating to 1896, available city directories, and owner interview information indicated that the subject site parcels were occupied by one or more residences and associated outbuildings from prior to 1938 through approximately the mid-1970s. The residence on parcel -06, with the associated site address of 14677 Merrill Avenue, was the last standing onsite structure. All structures were removed prior to 1985 and the site has remained vacant.

The subject site parcels and adjacent properties to the west toward Cherry Avenue and to the east beyond Redwood Avenue were not utilized for agricultural purposes during the period covered by available historical records. Past uses of the site are very unlikely to have involved the treatment, generation, or disposal of hazardous substances or significant quantities of petroleum products.

5.5 Adjacent Property Land Use

The subject site was bounded to the north by Merrill Avenue with TEC Collision Center and TEC Truck Rental and Leasing further to the north, to the west by a block wall and Morrow Equipment (crane assemblages), to the south by a residential property and industrial warehouses, and to the east by residential properties and Redwood Avenue. There were no fences along the property lines in the southeast portion of the site.

5.6 Site Reconnaissance

CHJ personnel conducted reconnaissance of the subject site and adjacent properties on August 9, 2016. The purpose of the site reconnaissance was to ascertain visual evidence used to identify RECs in connection with the subject property such as evidence of the use, storage, generation, release, or disposal of hazardous materials or petroleum products based on current conditions.

No obvious evidence of current or historical mishandling or misuse of hazardous materials or petroleum products was noted on the subject site at the time of the site visit. Specific site features and significance to identifying RECs, if any, are discussed in the following sections.



5.6.1 Storage Tanks

There was no evidence of underground or above ground storage tanks on the subject site.

5.6.2 Odors

No unusual odors were noted during the site reconnaissance.

5.6.3 Pools of Liquid

No standing surface water or other pools of liquid were noted on the subject site.

5.6.4 Drums

No drums of any size were noted on the subject site. Three or four 55-gallon drums were noted on a flatbed trailer offsite behind the residence in the backyard area of 8956 Redwood Avenue. The drums were stored horizontally and appeared to be empty.

5.6.5 Hazardous Substance and Petroleum Products Containers

No hazardous substance or petroleum products containers were noted on the subject site.

5.6.6 Unidentified Substance Containers

No unidentified substance containers were noted on the subject site.

5.6.7 Polychlorinated Biphenyls (PCBs)

One pole-type transformer was noted near the southeast corner of the site on Redwood Avenue. The transformer was in good condition with no signs of leakage.

5.6.8 Pits, Ponds, or Lagoons

No pits, ponds or lagoons were noted on the subject site.

5.6.9 Stained Soil or Pavement

Very minor soil staining typical of automotive leakage was noted on the southeastern portion of the site being utilized as a driveway for the adjacent residential parcel to the south.

5.6.10 Distressed Vegetation

No distressed vegetation due to soil conditions was noted on-site.



5.6.11 Solid Waste

Minimal quantities of wind-blown trash and debris were noted throughout the subject site. Debris piles consisting of soil and rock were noted in the southwest and northwest corners of the site. Minor quantities of large debris including a roll of chain link fencing and a small couch were also noted onsite.

5.6.12 Waste Water

The site did not appear to have any specific drainage features. Surface flow would generally be from north to south across the site following a slight topographic gradient.

5.6.13 Groundwater Wells

No onsite groundwater wells were identified.

5.6.14 Septic Systems

No evidence of septic systems was noted on the subject site during this investigation; however, due to the timeframe of the residential development onsite, there are likely to be remnants of septic system features in any of the areas adjacent to former houses. The 1953 and 1959 aerial photographs show the clearest representations of the fully developed site in the 1950s and 1960s.

6.0 INTERVIEWS

6.1 Interview With Owner

Ms. Shirley Cox, owner of the subject site parcels, responded in writing to Phase I ESA Owner Interview questions on August 16, 2016.

Larry E. and Shirley Fay Cox, either as individuals or as Trustees of the L. and S. Cox Revocable Trust, have taken ownership of the site parcels between 2001 and 2008. They have been vacant and undeveloped since that time, with no known past uses reported by the owner. Neighboring properties are reportedly commercial and residential.

Ms. Cox indicated no knowledge of hazardous waste or hazardous materials, underground or above ground storage tanks, electrical or hydraulic equipment known to contain polychlorinated biphenyls,



sumps, clarifiers, drains, septic systems, fill material, landfilled material, or wells on the subject site. Previous site uses were not known.

Ms. Cox reported that there have been no previous reports, no notices from any governmental agency regarding violation of environmental laws; no pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the site; and no known environmental concerns associated with the site or adjacent properties.

6.2 Interviews With Site Managers

Same as property owner.

6.3 Interview With Occupant

There were no occupants.

6.4 Interviews With Local Government Officials

None were conducted.

7.0 EVALUATION

7.1 Findings and Opinion

Based upon the historical and current site conditions as indicated through research of the sources described within this report, no recognized environmental conditions, as defined in ASTM 1527-13, were identified in connection with the subject property.

7.2 Data Gaps

No significant data gaps were identified that have affected the ability to identify RECs in connection with the subject site.

7.3 Conclusions

We have performed this Phase I Environmental Site Assessment of the subject site in Fontana, California, identified as APNs 0231-021-03, -04, -44, -45, and the majority of parcel -06 (± 2.5 acres), 14677 Merrill Avenue, the property, in general conformance with the scope and limitations of ASTM



Practice E 1527-13. No evidence of recognized environmental conditions in connection with the property has been revealed during the Phase I site assessment.

8.0 LIMITATIONS

C.H.J., Incorporated has performed our services within the limits prescribed by our client with no vested interest in the site or in the subject matter contained in the report and with the usual thoroughness and competence of the engineering profession. C.H.J., Incorporated makes no other warranty or representation, either express or implied.

The findings and opinions presented in this report are based upon the research and site reconnaissance described in this report. Should conditions be encountered in the field that appear different from those described in this report, we should be contacted immediately in order that we might evaluate their effect. Site conditions are subject to change with time, and should be evaluated within this context. CHJ shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the assessment was performed.

If this report or portions thereof are provided to others, it should be understood by all parties that it is provided for information only, and should be used as such.

This report and its contents resulting from this investigation are not intended or represented to be suitable for reuse on extensions or modifications of the project or for use on any other projects.

9.0 CLOSURE

To the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in Section 312.10 of CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.



We appreciate this opportunity to provide environmental assessment services for this project. If you should have questions or comments regarding this report, please contact this firm at your convenience.

Respectfully submitted,
C.H.J., INCORPORATED

Ann M. Laudermilk
Environmental Project Manager



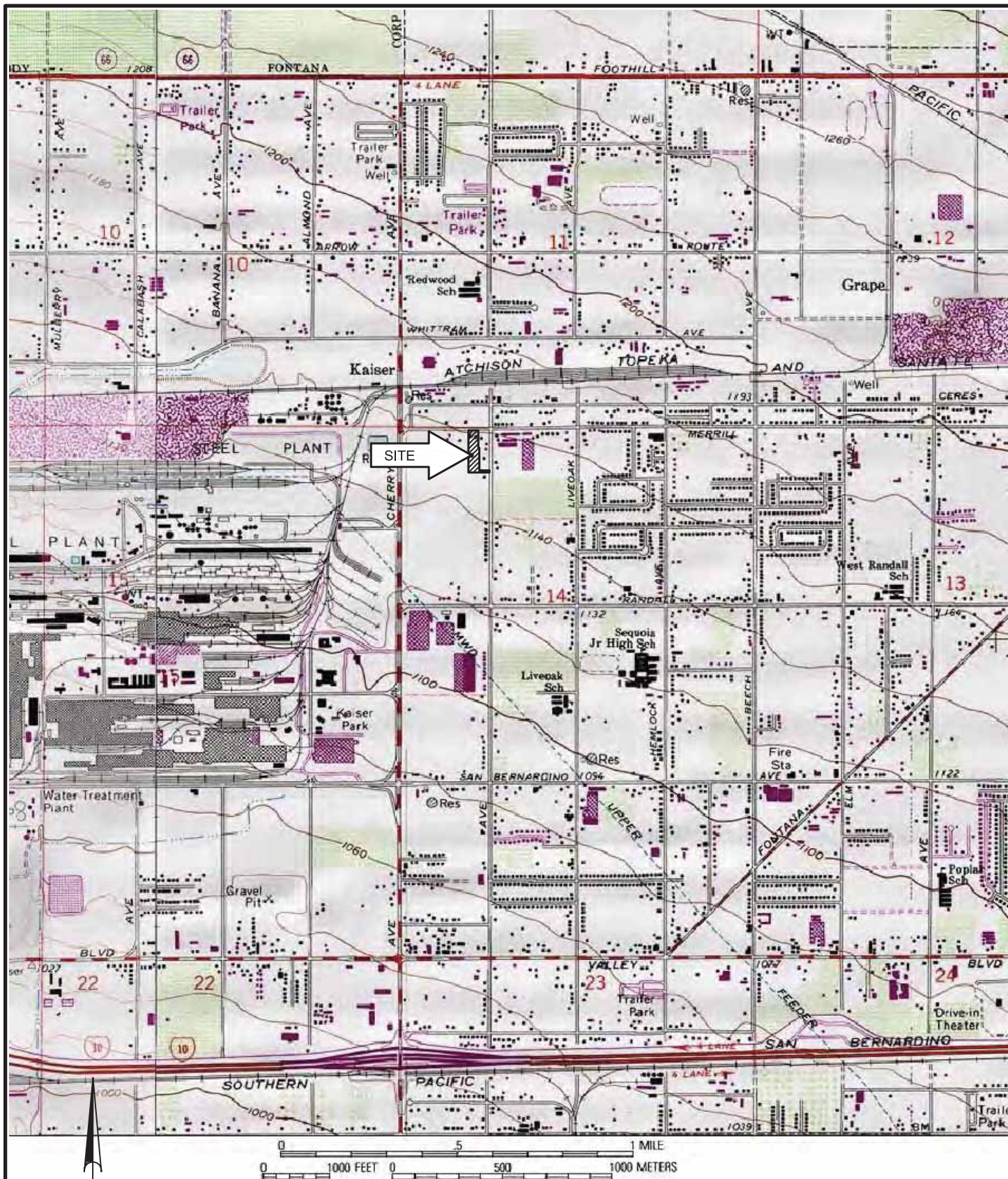
George Battey III, R.C.E. 34323
President

AL/GB:al



ENCLOSURE A

MAPS



INDEX MAP

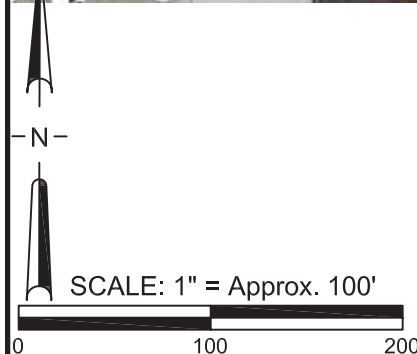
FOR: COUNTY OF SAN BERNARDINO
PROJECT MANAGEMENT DIVISION


DATE: AUGUST 2016

PHASE I ENVIRONMENTAL SITE ASSESSMENT
14677 MERRILL AVENUE
APNS 0231-021-03, -04, -06, -44 AND -45
FONTANA, CALIFORNIA

ENCLOSURE
"A-1"

JOB NUMBER
G16-030-9



SITE MAP			
FOR: COUNTY OF SAN BERNARDINO PROJECT MANAGEMENT DIVISION		PHASE I ENVIRONMENTAL SITE ASSESSMENT 14677 MERRILL AVNEUE APNS 0231-021-03, -04, -06, -44 AND -45 FONTANA, CALIFORNIA	ENCLOSURE "A-2"
DATE: AUGUST 2016			JOB NUMBER G16-030-9
			



ENCLOSURE B

**ENVIRONMENTAL LIEN
SEARCH REPORT**

Proposed CSU Facility, Fontana

14677 Merrill Avenue
Fontana, CA 92335

Inquiry Number: 4692389.7
August 10, 2016

EDR Environmental Lien and AUL Search

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

14677 Merrill Avenue
Proposed CSU Facility, Fontana
Fontana, CA 92335

RESEARCH SOURCE

Source 1:

San Bernardino Recorder
San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed: deed
Title is vested in: Larry E & Shirley Fay Cox Trustees
Title received from: Larry E & Shirley Fay Cox
Deed Dated: 12/12/2005
Deed Recorded: 11/9/2006
Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: See Exhibit

Legal Current Owner: Larry E & Shirley Fay Cox Trustees

Parcel # / Property Identifier: 0231-021-03

Comments: See Exhibit

Deed 2:

Type of Deed: deed
Title is vested in: Larry E & Shirley Fay Cox Trustees
Title received from: Larry E & Shirley Fay Cox
Deed Dated: 12/12/2005
Deed Recorded: 11/9/2006
Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA
Land Record Comments:

EDR Environmental Lien and AUL Search

Miscellaneous Comments:

Legal Description: See Exhibit
Legal Current Owner: Larry E & Shirley Fay Cox Trustees
Parcel # / Property Identifier: 0231-021-06
Comments: See Exhibit

Deed 3:

Type of Deed: deed
Title is vested in: Larry E & Shirley Fay Cox Trustees
Title received from: Jim Morris
Deed Dated: 12/19/2008
Deed Recorded: 12/30/2008
Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: See Exhibit
Legal Current Owner: Larry E & Shirley Fay Cox Trustees
Parcel # / Property Identifier: 0231-021-04, 0231-021-44
Comments: See Exhibit

Deed 4:

Type of Deed: deed
Title is vested in: Larry E & Shirley Fay Cox Trustees
Title received from: W Don Edwards Nancy Nell Dickerson & Trustees
Deed Dated: 12/12/2008
Deed Recorded: 2/14/2008
Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: See Exhibit

EDR Environmental Lien and AUL Search

Legal Current Owner: Larry E & Shirley Fay Cox Trustees

Parcel # / Property Identifier: 0231-021-45

Comments: See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

RECORDING REQUESTED BY:
Grover Escrow Corporation**LARRY WALKER**
Auditor/Controller - Recorder

R Regular Mail

AND WHEN RECORDED MAIL TO:

LARRY E COX
SHIRLEY F COX, TRUSTEE
11625 ANABEL AVENUE
GARDEN GROVE, CA 92843

Doc#: 2006-0768945



Titles: 1 Pages: 2

Fees	19.00
Taxes	0.00
Other	0.00
PAID	\$19.00

Order No.
Escrow No.
Parcel No. 231-021-03

SPACE ABOVE THIS LINE FOR RECORDER'S USE

GRANT DEED

THE UNDERSIGNED THAT DOCUMENTARY TRANSFER TAX IS \$NONE and CITY \$
☐ computed on full value of property conveyed, or
☐ computed on full value less liens or encumbrances remaining at the time of sale.
☐ unincorporated area: ☐ San Bernardino Fontana and

*No Consideration
Transfer to A Trust
R+T 11/9/11*

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

LARRY E COX and SHIRLEY FAY COX, Husband and Wife as Community Property**HERBY GRANT(S) TO LARRY E. COX AND SHIRLEY F. COX, TRUSTEES OF THE L. & S. COX
REVOCABLE TRUST DATED AUGUST 25, 2005**the following described real property in the County of **SAN BERNARDINO** California:

A portion of Lot 876 according to map showing subdivision of Lands belonging to Semi-Tropic Land and Water Company as per plat recorded in Book 11 of Maps, Page(s) 12, records of San Bernardino County

Date December 12, 2005
LARRY E COX
SHIRLEY F COX

STATE OF CALIFORNIA }

COUNTY OF }

} S.S.
}

On _____, before me, _____,
 personally appeared personally known to me (or proved to me on the basis of satisfactory evidence) to be the
 person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in
 his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of
 which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

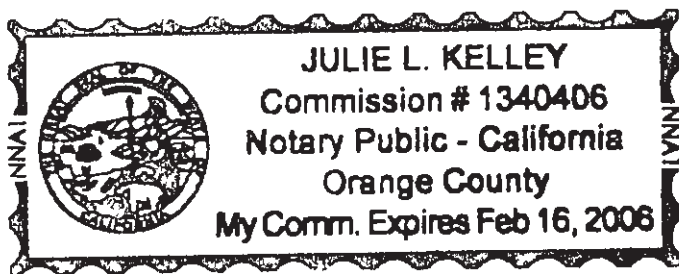
County of ORANGE

} ss.

On DECEMBER 14, 2006¹⁵, before me, JULIE L KELLEY, NOTARY PUBLIC,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared LARRY E COX AND SHIRLEY F COX,
Name(s) of Signer(s)

- ☒ personally known to me
☐ proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Deed Exhibit 2

RECORDING REQUESTED BY:
Grover Escrow Corporation



LARRY WALKER
Auditor/Controller - Recorder

R Regular Mail

AND WHEN RECORDED MAIL TO:

LARRY E COX
SHIRLEY F COX, TRUSTEE
11625 ANABEL AVENUE
GARDEN GROVE, CA 92843

Doc#: 2006-0768948



Titles: 1 Pages: 3

Fees	22.00
Taxes	0.00
Other	0.00
PAID	\$22.00

Order No.
Escrow No.
Parcel No. 0231-021-06

SPACE ABOVE THIS LINE FOR RECORDER'S USE

GRANT DEED

THE UNDERSIGNED THAT DOCUMENTARY TRANSFER TAX IS \$NONE and CITY \$
☐ computed on full value of property conveyed, or
☐ computed on full value less liens or encumbrances remaining at the time of sale.
☐ unincorporated area: ☐ San Bernardino Fontana and

*Transfer to a trust
No consideration
R+T11911*

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

LARRY E COX and SHIRLEY FAY COX, Husband and Wife as Joint Tenants

HERBY GRANT(S) TO LARRY E. COX AND SHIRLEY F. COX, TRUSTEES OF THE L. & S. COX
REVOCABLE TRUST DATED AUGUST 25, 2005

the following described real property in the County of SAN BERNARDINO California:

See Exhibit "A" attached hereto and made a part hereof

Date December 12, 2005


LARRY E COX


SHIRLEY F COX

STATE OF CALIFORNIA }

COUNTY OF }

} S.S.
}

On _____, before me, _____,
personally appeared personally known to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in
his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of
which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

EXHIBIT "A"

LEGAL DESCRIPTION

The land referred to herein is situated in the State of California, County of SAN BERNARDINO, Unincorporated Area, described as follows:

PARCEL 1:

THE SOUTH 30 FEET OF THE NORTH 334.40 FEET OF THE EAST 162.96 FEET OF FARM LOT 876, ACCORDING TO SUBDIVISION OF LANDS BELONGING TO THE SEMI-TROPIC LAND AND WATER COMPANY, IN THE CITY OF FONTANA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11 PAGE 12 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2:

THE EAST 75 FEET OF THE NORTH 320.40 FEET OF THE WEST 162.96 FEET OF THE EAST 325.92 FEET OF FARM LOT 876, ACCORDING TO SUBDIVISION OF LANDS BELONGING TO THE SEMI-TROPIC LAND AND WATER COMPANY, IN THE CITY OF FONTANA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE 12 OF MAPS, IN THE OFFICE OF THE RECORDER OF SAID COUNTY;

EXCEPTING THEREFROM THE EAST 10 FEET OF THE NORTH 303.90 FEET.

End of Legal Description

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of ORANGE

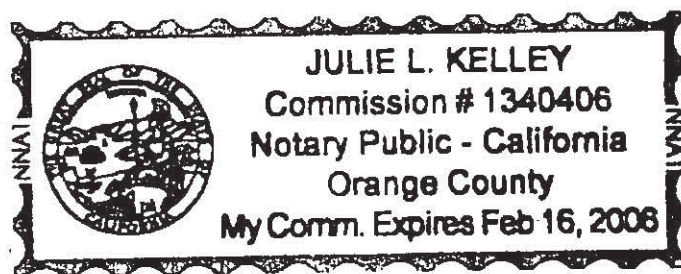
} ss.

On DECEMBER 14, 2005, before me, JULIE L KELLEY, NOTARY PUBLIC,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared LARRY E COX AND SHIRLEY F COX,
Name(s) of Signer(s)

- ☒ personally known to me
☐ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

Signature of Notary Public.

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

Deed Exhibit 3

FMT-ZE

RECORDING REQUESTED BY:

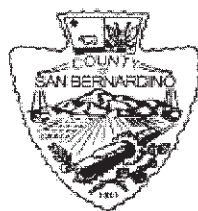
Grover Escrow Corporation

Mail Tax Statements to
AND WHEN RECORDED MAIL TO:Larry Cox
13372 Neptune Court
Garden Grove, CA 92841

Order No. 33379387

Escrow No. 46851-06

Parcel No. 0231-021-44, 0231-021-04



LARRY WALKER

Auditor/Controller - Recorder

742 Fidelity National Title Co.

Doc #: 2008-0571923



Titles: 1 Pages: 2

Fees 22.00

Taxes 165.00

Other .00

PAID 187.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

33379387.

GRANT DEED

THE UNDERSIGNED THAT DOCUMENTARY TRANSFER TAX IS \$165.00


- ☐ computed on full value of property conveyed, or
☐ computed on full value less liens or encumbrances remaining at the time of sale.
☒ unincorporated area: ☐ San Bernardino, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
Jim Morris, an unmarried man

hereby **GRANTS** to **Larry Cox and Shirley Cox, Trustees of the L&S Cox Revocable Trust** dated
 August 25, 2005.
 the following described real property in the County of **San Bernardino**, State of California:

AS PER EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF:

Date December 19, 2008


 Jim Morris
 Jim Morris

STATE OF CALIFORNIA

}
 } S.S.
 }

COUNTY OF ORANGE

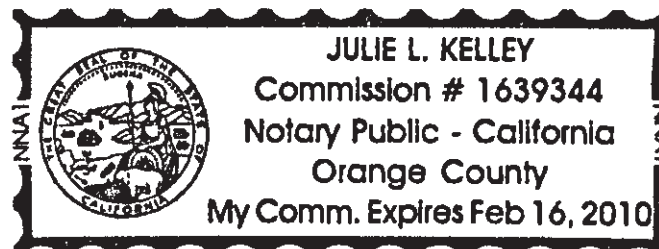
On December 19, 2008, before me, JULIE L KELLEY, NOTARY PUBLIC,
 personally appeared Jim Morris who proved to me on the basis of satisfactory evidence to be the person(s) whose
 name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the
 entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is
 true and correct.

WITNESS my hand and official seal.

Signature 

(Seal)



LEGAL DESCRIPTION

EXHIBIT "A"

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

Parcel 1:

The North 212.90 feet of the South 237.90 feet of the West 14 feet of the East 176.96 feet of Farm Lot 876, according to map showing subdivision of lands belonging to the Semi-Tropic Land and Water Company as per Plat recorded in Book 11, Page(s) 12, records of San Bernardino County.

Area and distances of the above described property are computed to the center of all adjoining streets and roads.

Assessor's Parcel Number: 0231-021-44

Parcel 2:

That portion of Farm Lot 876, according to Map showing Subdivision of Lands belonging to the Semi-Tropic Land and Water Company, as per Plat recorded in Book 11, Page(s) 12, records of San Bernardino County, State of California, described as follows:

Beginning at a point 133.65 feet North of the South line of the West 162.96 feet of the East 325.92 feet, of said Lot 876; thence North $0^{\circ} 07' 50''$ West 104.25 feet; thence South $89^{\circ} 45' 50''$ West 148.96 feet to the point of beginning;

Together with an easement and right of way 15 feet in width over and across the South 15 feet of the East 325.92 feet of said Lot 876, and the West 15 feet of the South 133.05 feet of the West 162.96 feet of the East 325.92 feet of said Lot.

Area and distances of the above described property are computed to the center of all adjoining streets and roads.

Assessor's Parcel Number: 0231-021-04

Deed Exhibit 4

2/14/2008

1:00 PM
LMRECORDING REQUESTED BY:
LANDWOOD TITLE COMPANY**LARRY WALKER**
Auditor/Controller - Recorder

788 Landwood Title Company

AND WHEN RECORDED MAIL TO:

Mail tax statements
Mr. and Mrs. Larry Cox
11625 Anabel Ave
Garden Grove, CA 92843

Doc#: 2008-0068994



Titles:	1	Pages:	5
Fees			31.00
Taxes			192.50
Other			0.00
PAID			\$223.50

THIS SPACE FOR RECORDER'S USE ONLY:

Title Order No.: 123270

Escrow No.: 17-003227-MD

TRA# 074050

GRANT DEED - Counterpart

THE UNDERSIGNED GRANTOR(S) DECLARE(S)

DOCUMENTARY TRANSFER TAX is \$192.50☒ computed on full value of property conveyed, or☐ computed on full value less value of liens or encumbrances remaining at time of sale.☒ Unincorporated area ☐ City of San Bernardino Area AND

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

An Undivided One-Sixth Interest to W. Don Edwards, An Undivided One-Sixth Interest to Nancy Nell Dickenson, An Undivided Two-Thirds Interest to W. Don Edwards and Nancy Nell Dickenson as Co-Trustees of the Testamentary Trust Created under the terms of the Last Will of the Deceased Clarence F. Edwards, Pursuant to the Decree of Distribution recorded in Book 6806, Page 240 of Official Records

hereby GRANT(s) to:

Larry E. Cox and Shirley F. Cox, Trustees of the L. & S. Cox Revocable Trustthe real property in the Area of San Bernardino Area, County of San Bernardino, State of California, described as:
LEGAL DESCRIPTION ATTACHED HERETO. AND MADE A PART HEREOF

Also Known as: APN #0231-021-45-0000 Vacant Land, San Bernardino Area, CA

AP#: 0231-021-45-0000

*February 12, 2008***DATED January 31, 2008**

STATE OF CALIFORNIA

COUNTY OF *Los Angeles*On *2/12/2008*Before me, *Pamela Lee Deahl*

A Notary Public in and for said State, personally appeared

William Donato Edwards
PD PD

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing is true and correct.

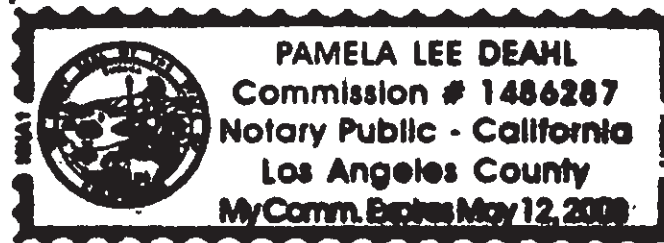
WITNESS my hand and official seal.

Signature

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

SIGNATURE ATTACHED HERETO
MADE A PART HEREOF.

AND

Pamela Lee Deahl*Comm # 1486287**Comm exp. May 12, 2008*

(This area for official notarial seal)

SIGNATURE

An Undivided One-Sixth Interest to W. Don Edwards, An Undivided One-Sixth Interest to Nancy Nell Dickenson,
An Undivided Two-Thirds Interest to W. Don Edwards and Nancy Nell Dickenson as Co-Trustees of the
Testamentary Trust Created under the terms of the Last Will of the Deceased Clarence F. Edwards, Pursuant to
the Decree of Distribution recorded in Book 6806, Page 240 of Official Records

BY:


W. Don Edwards

BY:

Signed in counterpart 10F2
Nancy Nell Dickenson

BY:


W. Don Edwards, Trustee

BY:

Signed in counterpart
Nancy Nell Dickenson, Trustee

RECORDING REQUESTED BY:
LANDWOOD TITLE COMPANY

AND WHEN RECORDED MAIL TO:

Mr. and Mrs. Larry Cox
11625 Anabel Ave
Garden Grove, CA 92843

THIS SPACE FOR RECORDER'S USE ONLY:

Title Order No.: 123270

Escrow No.: 17-003227-MD

TRA# 074050

GRANT DEED

THE UNDERSIGNED GRANTOR(S) DECLARE(S)

DOCUMENTARY TRANSFER TAX is \$

☒ computed on full value of property conveyed, or

☐ computed on full value less value of liens or encumbrances remaining at time of sale.

☒ Unincorporated area ☐ City of San Bernardino Area **AND**

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

An Undivided One-Sixth Interest to W. Don Edwards, An Undivided One-Sixth Interest to Nancy Nell Dickenson, An Undivided Two-Thirds Interest to W. Don Edwards and Nancy Nell Dickenson as Co-Trustees of the Testamentary Trust Created under the terms of the Last Will of the Deceased Clarence F. Edwards, Pursuant to the Decree of Distribution recorded in Book 6806, Page 240 of Official Records

hereby GRANT(s) to:

Larry E. Cox and Shirley F. Cox, Trustees of the L. & S. Cox Revocable Trust

the real property in the Area of San Bernardino Area, County of San Bernardino, State of California, described as:
LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF

Also Known as: APN #0231-021-45-0000 Vacant Land, San Bernardino Area, CA
AP#: 0231-021-45-0000

DATED January 31, 2008

STATE OF CALIFORNIA

COUNTY OF Shasta

On February 4, 2008

Before me, Alicia A. Dahl

A Notary Public in and for said State, personally appeared

Greg Dickenson Attorney in
fact for Nancy Nell Dickenson.

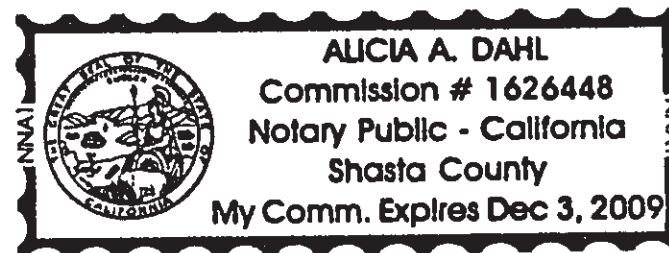
SIGNATURE ATTACHED HERETO
MADE A PART HEREOF.

AND

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing is true and correct.

WITNESS my hand and official seal.



Signature

A handwritten signature in cursive script, appearing to read "Alicia A. Dahl", written over a horizontal line.

(This area for official notarial seal)

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

SIGNATURE

An Undivided One-Sixth Interest to W. Don Edwards, An Undivided One-Sixth Interest to Nancy Nell Dickenson, An Undivided Two-Thirds Interest to W. Don Edwards and Nancy Nell Dickenson as Co-Trustees of the Testamentary Trust Created under the terms of the Last Will of teh Deceased Clarence F. Edwards, Pursuant to the Decree of Distribution recorded in Book 6806, Page 240 of Official Records

BY: Signed in Counterpart
W. Don Edwards

2012

BY: Nancy Nell Dickenson - BY Attorney AS HER ATTORNEY IN FACT
Nancy Nell Dickenson

BY: Signed in counterpart
W. Don Edwards, Trustee

BY: Nancy Nell Dickenson Trustee BY Attorney AS HER ATTORNEY IN FACT
Nancy Nell Dickenson, Trustee

ORDER NO.: 123270

LEGAL DESCRIPTION

All that certain lot or parcel of land lying and being situated in the SAN BERNARDINO (AREA), State of California, as more particularly described as follows:

THAT PORTION OF FARM LOT 876, ACCORDING TO MAP SHOWING SUB-DIVISION OF LANDS BELONGING TO SEMI-TROPIC LAND AND WATER COMPANY, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS PER PLAT RECORDED IN BOOK 11 OF MAPS, PAGE 12, RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

THE WEST 162.96 FEET OF THE EAST 325.92 FEET OF SAID FARM LOT 876.

EXCEPTING THEREFROM THE EAST 75 FEET OF THE NORTH 344.4 FEET

ALSO EXCEPTING THAT PORTION LYING SOUTH AND EAST OF A LINE DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 237.90 FEET NORTH OF THE SOUTHWEST CORNER OF THE WEST 162.96 FEET OF THE EAST 325.92 FEET OF SAID LOT 876; SAID POINT BEING THE NORTHWEST CORNER OF LAND CONVEYED TO B.L. NUNNELEY, ET UX, BY DEED RECORDED MAY 21, 1949, IN BOOK 2233, PAGE 450 OF OFFICIAL RECORDS; THENCE NORTH 89° 45' 50" EAST 148.96 FEET, MORE OR LESS, TO A POINT ON THE WEST LINE OF THE LAND CONVEYED TO JOHN B. TUDOR, ET UX, BY DEED RECORDED JULY 10, 1946, IN BOOK 1912, PAGE 269 OF OFFICIAL RECORDS; THENCE NORTH TO THE NORTHWEST CORNER OF SAID TUDOR LAND, THENCE EAST TO A POINT ON THE EAST LINE OF THE WEST 162.96 FEET OF THE EAST 325.92 FEET OF SAID FARM LOT 876; WHICH IS 330 FEET NORTH OF THE SOUTHEAST CORNER THEREOF."

Assessor's Parcel Number: 0231-021-45-0000



ENCLOSURE C

EDR DATABASE SEARCH REPORT

Proposed CSU Facility, Fontana

14677 Merrill Avenue

Fontana, CA 92335

Inquiry Number: 4692389.2s

August 04, 2016

The EDR Radius Map™ Report with GeoCheck®

Prepared using the EDR FieldCheck® System



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of the environmental records was conducted by Environmental Data Resources, Inc. (EDR). CHJ CONSULTANTS used the EDR FieldCheck System to review and/or revise the results of this search, based on independent data verification by CHJ CONSULTANTS. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

14677 MERRILL AVENUE
FONTANA, CA 92335

COORDINATES

Latitude (North):	34.0910520 - 34° 5' 27.78"
Longitude (West):	117.4850460 - 117° 29' 6.16"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	455253.7
UTM Y (Meters):	3772163.2
Elevation:	1158 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619058 FONTANA, CA
Version Date:	2012
Southwest Map:	5620426 GUASTI, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
14677 MERRILL AVENUE
FONTANA, CA 92335

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MORROW EQUIPMENT COM	14645 MERRILL AVE	San Bern. Co. Permit	Lower	178, 0.034, West
A2	MORROW EQUIPMENT CO	14645 MERRILL AVE	RCRA-SQG, FINDS, ECHO	Lower	199, 0.038, West
B3	TEC OF CALIFORNIA IN	14608 MERRILL AVE	HAZNET, San Bern. Co. Permit	Higher	207, 0.039, NNW
B4	AVILAS GARDEN ART	14608 MERRILL AVE	NPDES, San Bern. Co. Permit	Higher	221, 0.042, NNW
A5	MEZA PALLETS INC	14619 MERRILL AVE	San Bern. Co. Permit	Lower	303, 0.057, West
C6	EAGLE IRON ERECTORS,	14664 RANCHO VISTA D	San Bern. Co. Permit	Lower	309, 0.059, South
C7	ROAD MACHINERY COMPA	14642 RANCHO VISTA D	San Bern. Co. Permit	Lower	334, 0.063, SSW
C8	TOM'S TRUCK PAINTING	14687 RANCHO VISTA D	San Bern. Co. Permit	Lower	362, 0.069, South
C9		14687 RANCHO VISTA	EDR Hist Auto	Lower	362, 0.069, South
C10		14643 RANCHO VISTA	EDR Hist Auto	Lower	373, 0.071, SSW
C11	VECTOR INTERNATIONAL	14643 RANCHO VISTA D	San Bern. Co. Permit	Lower	373, 0.071, SSW
B12	BLUE ROSE CONCRETE C	14636 CERES AVE	San Bern. Co. Permit	Higher	423, 0.080, NNW
B13	JC CONCRETE INC	14626 CERES AVE	HAZNET, San Bern. Co. Permit	Higher	448, 0.085, NNW
D14	TEC EQUIPMENT	14611 RANCHO VISTA D	San Bern. Co. Permit	Lower	476, 0.090, SSW
D15		14589 RANCHO VISTA	EDR Hist Auto	Lower	576, 0.109, SW
D16		14572 RANCHO VISTA	EDR Hist Auto	Lower	645, 0.122, SW
D17	RAY GASKIN SERVICE	14572 RANCHO VISTA A	San Bern. Co. Permit	Lower	645, 0.122, SW
E18	CABRILLO HOIST	14754 CERES AVE	San Bern. Co. Permit	Higher	674, 0.128, NE
E19	FONTANA WATER CO -F2	14777 CERES AVE	San Bern. Co. Permit	Higher	763, 0.145, NE
F20	MG MOBILE WASH	14534 RANCHO VISTA D	AST, San Bern. Co. Permit	Lower	824, 0.156, WSW
G21	T C I LEASING RENTAL	14561 MERRILL AVE	RCRA-SQG, FINDS, HAZNET, ECHO	Lower	842, 0.159, West
G22	KDC PIPE AND STEEL I	14561 MERRILL AVE	San Bern. Co. Permit	Lower	842, 0.159, West
G23	TCI LEASING	14561 MERRILL AVE	UST, AST	Lower	852, 0.161, West
24	FONTANA WATER CO -F3	14500 CERES AVE	San Bern. Co. Permit	Higher	895, 0.170, WNW
F25	JOHNSON LIFT HYSTER	14535 RANCHO VISTA D	HAZNET, San Bern. Co. Permit	Lower	965, 0.183, SW
F26	JOHNSON RENTAL SERVI	14535 RANCHO VISTA D	AST, San Bern. Co. Permit	Lower	965, 0.183, SW
H27	J B AUTO SALVAGE	14717 WHITTRAM	NPDES, San Bern. Co. Permit	Higher	1132, 0.214, North
H28	J B AUTO SALVAGE	14717 WHITTRAM AVE	UST	Higher	1132, 0.214, North
29	KOPPERS CO INC	8810 CHERRY AVE	RCRA-SQG, HIST UST, FINDS, EMI, ECHO	Higher	1291, 0.245, NW
I30	MASTER HALCO, INC.	9125 CHERRY AVENUE	ENVIROSTOR, VCP, NPDES, San Bern. Co. Permit, WDS	Lower	1307, 0.248, SW
I31	MASTER HALCO	9125 CHERRY AVE.	RCRA-LQG, ENVIROSTOR, UST	Lower	1358, 0.257, SW
32	SOUTHERN PACIFIC-KAI	ETIWANDA AVE	LUST	Higher	1475, 0.279, WNW
33	RDA RESIDENCE	14636 RANDALL AVE.	SLIC	Lower	1973, 0.374, South
J34	ADVANCED STEEL RECOV	14451 WHITTRAM AVENU	ENVIROSTOR, VCP, NPDES, San Bern. Co. Permit, WDS	Higher	1979, 0.375, NW
J35	ANGELUS BLOCK CO INC	14515 WHITTRAM AVE	LUST, HIST CORTESE, NPDES, San Bern. Co. Permit,...	Higher	2003, 0.379, NW
36	KAISER STEEL - BYPRO	9400 CHERRY AVENUE	HIST Cal-Sites	Lower	4732, 0.896, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No sites were identified in following databases.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

SCH..... School Property Evaluation Program

CDL..... Clandestine Drug Labs

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing

CA FID UST..... Facility Inventory Database

Local Land Records

LIENS..... Environmental Liens Listing

EXECUTIVE SUMMARY

LIENS 2..... CERCLA Lien Information
 DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
 CHMIRS..... California Hazardous Material Incident Report System
 LDS..... Land Disposal Sites Listing
 MCS..... Military Cleanup Sites Listing
 SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
 FUDS..... Formerly Used Defense Sites
 DOD..... Department of Defense Sites
 SCRDRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
 US FIN ASSUR..... Financial Assurance Information
 EPA WATCH LIST..... EPA WATCH LIST
 2020 COR ACTION..... 2020 Corrective Action Program List
 TSCA..... Toxic Substances Control Act
 TRIS..... Toxic Chemical Release Inventory System
 SSTS..... Section 7 Tracking Systems
 ROD..... Records Of Decision
 RMP..... Risk Management Plans
 RAATS..... RCRA Administrative Action Tracking System
 PRP..... Potentially Responsible Parties
 PADS..... PCB Activity Database System
 ICIS..... Integrated Compliance Information System
 FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
 MLTS..... Material Licensing Tracking System
 COAL ASH DOE..... Steam-Electric Plant Operation Data
 COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
 PCB TRANSFORMER..... PCB Transformer Registration Database
 RADINFO..... Radiation Information Database
 HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
 DOT OPS..... Incident and Accident Data
 CONSENT..... Superfund (CERCLA) Consent Decrees
 INDIAN RESERV..... Indian Reservations
 FUSRAP..... Formerly Utilized Sites Remedial Action Program
 UMTRA..... Uranium Mill Tailings Sites
 LEAD SMELTERS..... Lead Smelter Sites
 US AIRS..... Aerometric Information Retrieval System Facility Subsystem
 US MINES..... Mines Master Index File
 FINDS..... Facility Index System/Facility Registry System
 UXO..... Unexploded Ordnance Sites
 DOCKET HWC..... Hazardous Waste Compliance Docket Listing
 CA BOND EXP. PLAN..... Bond Expenditure Plan
 Cortese..... "Cortese" Hazardous Waste & Substances Sites List
 CUPA Listings..... CUPA Resources List
 DRYCLEANERS..... Cleaner Facilities
 EMI..... Emissions Inventory Data
 ENF..... Enforcement Action Listing
 Financial Assurance..... Financial Assurance Information Listing

EXECUTIVE SUMMARY

HAZNET.....	Facility and Manifest Data
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

An online review and analysis by CHJ CONSULTANTS of the RCRA-SQG list, as provided by EDR, and dated 12/09/2015 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KOPPERS CO INC	8810 CHERRY AVE	NW 1/8 - 1/4 (0.245 mi.)	29	32
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MORROW EQUIPMENT CO	14645 MERRILL AVE	W 0 - 1/8 (0.038 mi.)	A2	8
T C I LEASING RENTAL	14561 MERRILL AVE	W 1/8 - 1/4 (0.159 mi.)	G21	22

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

An online review and analysis by CHJ CONSULTANTS of the ENVIROSTOR list, as provided by EDR, and dated 05/02/2016 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ADVANCED STEEL RECOV Facility Id: 60002306 Status: Active	14451 WHITTRAM AVENUE	NW 1/4 - 1/2 (0.375 mi.)	J34	48
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MASTER HALCO, INC. Facility Id: 36500011 Status: Refer: RCRA	9125 CHERRY AVENUE	SW 1/8 - 1/4 (0.248 mi.)	I30	35
MASTER HALCO Facility Id: 71002958 Status: Active	9125 CHERRY AVE.	SW 1/4 - 1/2 (0.257 mi.)	I31	41

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

An online review and analysis by CHJ CONSULTANTS of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTHERN PACIFIC-KAI Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100107	ETIWANDA AVE	WNW 1/4 - 1/2 (0.279 mi.)	32	47
ANGELUS BLOCK CO INC Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/14/2016 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100304 Global ID: T0607100304	14515 WHITTRAM AVE	NW 1/4 - 1/2 (0.379 mi.)	J35	54

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

An online review and analysis by CHJ CONSULTANTS of the SLIC list, as provided by EDR, has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RDA RESIDENCE Database: SLIC, Date of Government Version: 03/14/2016 Facility Status: Completed - Case Closed Global Id: T10000003133	14636 RANDALL AVE.	S 1/4 - 1/2 (0.374 mi.)	33	48

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

An online review and analysis by CHJ CONSULTANTS of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
J B AUTO SALVAGE Database: UST, Date of Government Version: 03/14/2016 Facility Id: 87013773	14717 WHITTRAM AVE	N 1/8 - 1/4 (0.214 mi.)	H28	32
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TCI LEASING Database: UST, Date of Government Version: 03/14/2016	14561 MERRILL AVE	W 1/8 - 1/4 (0.161 mi.)	G23	26

EXECUTIVE SUMMARY

Facility Id: 47981

AST: A listing of aboveground storage tank petroleum storage tank locations.

An online review and analysis by CHJ CONSULTANTS of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MG MOBILE WASH	14534 RANCHO VISTA D	WSW 1/8 - 1/4 (0.156 mi.)	F20	21
TCI LEASING	14561 MERRILL AVE	W 1/8 - 1/4 (0.161 mi.)	G23	26
JOHNSON RENTAL SERVI	14535 RANCHO VISTA D	SW 1/8 - 1/4 (0.183 mi.)	F26	29

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

An online review and analysis by CHJ CONSULTANTS of the VCP list, as provided by EDR, and dated 05/02/2016 has revealed that there are 2 VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ADVANCED STEEL RECOV Status: Active Facility Id: 60002306	14451 WHITTRAM AVENU	NW 1/4 - 1/2 (0.375 mi.)	J34	48
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MASTER HALCO, INC. Status: Refer: RCRA Facility Id: 36500011	9125 CHERRY AVENUE	SW 1/8 - 1/4 (0.248 mi.)	I30	35

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

An online review and analysis by CHJ CONSULTANTS of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KAISER STEEL - BYPRO	9400 CHERRY AVENUE	WSW 1/2 - 1 (0.896 mi.)	36	61

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

An online review and analysis by CHJ CONSULTANTS of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KOPPERS CO INC Facility Id: 00000019457	8810 CHERRY AVE	NW 1/8 - 1/4 (0.245 mi.)	29	32

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

An online review and analysis by CHJ CONSULTANTS of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANGELUS BLOCK CO INC Reg Id: 083602362T	14515 WHITTRAM AVE	NW 1/4 - 1/2 (0.379 mi.)	J35	54

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

An online review and analysis by CHJ CONSULTANTS of the San Bern. Co. Permit list, as provided by EDR, and dated 06/09/2016 has revealed that there are 21 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEC OF CALIFORNIA IN Facility Status: ACTIVE Facility Id: FA0015651	14608 MERRILL AVE	NNW 0 - 1/8 (0.039 mi.)	B3	9
AVILAS GARDEN ART Facility Status: INACTIVE Facility Id: FA0009239	14608 MERRILL AVE	NNW 0 - 1/8 (0.042 mi.)	B4	12
BLUE ROSE CONCRETE C Facility Status: INACTIVE Facility Id: FA0009865	14636 CERES AVE	NNW 0 - 1/8 (0.080 mi.)	B12	17
JC CONCRETE INC Facility Status: ACTIVE Facility Id: FA0014705	14626 CERES AVE	NNW 0 - 1/8 (0.085 mi.)	B13	17
CABRILLO HOIST Facility Status: ACTIVE Facility Id: FA0012738	14754 CERES AVE	NE 1/8 - 1/4 (0.128 mi.)	E18	20
FONTANA WATER CO -F2	14777 CERES AVE	NE 1/8 - 1/4 (0.145 mi.)	E19	20

EXECUTIVE SUMMARY

Facility Status: ACTIVE Facility Id: FA0000039				
FONTANA WATER CO -F3 Facility Status: INACTIVE Facility Id: FA0003285	14500 CERES AVE	WNW 1/8 - 1/4 (0.170 mi.)	24	27
J B AUTO SALVAGE Facility Status: INACTIVE Facility Id: FA0004051	14717 WHITTRAM	N 1/8 - 1/4 (0.214 mi.)	H27	30
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MORROW EQUIPMENT COM Facility Status: ACTIVE Facility Id: FA0004860	14645 MERRILL AVE	W 0 - 1/8 (0.034 mi.)	A1	8
MEZA PALLETS INC Facility Status: ACTIVE Facility Id: FA0004693	14619 MERRILL AVE	W 0 - 1/8 (0.057 mi.)	A5	13
EAGLE IRON ERECTORS, Facility Status: INACTIVE Facility Id: FA0002830	14664 RANCHO VISTA D	S 0 - 1/8 (0.059 mi.)	C6	14
ROAD MACHINERY COMPA Facility Status: INACTIVE Facility Id: FA0009437 Facility Id: FA0010459	14642 RANCHO VISTA D	SSW 0 - 1/8 (0.063 mi.)	C7	14
TOM'S TRUCK PAINTING Facility Status: ACTIVE Facility Id: FA0006709	14687 RANCHO VISTA D	S 0 - 1/8 (0.069 mi.)	C8	15
VECTOR INTERNATIONAL Facility Status: INACTIVE Facility Id: FA0008004 Facility Id: FA0010502	14643 RANCHO VISTA D	SSW 0 - 1/8 (0.071 mi.)	C11	16
TEC EQUIPMENT Facility Status: INACTIVE Facility Id: FA0014429	14611 RANCHO VISTA D	SSW 0 - 1/8 (0.090 mi.)	D14	18
RAY GASKIN SERVICE Facility Status: ACTIVE Facility Id: FA0013913	14572 RANCHO VISTA A	SW 0 - 1/8 (0.122 mi.)	D17	19
MG MOBILE WASH Facility Status: INACTIVE Facility Status: ACTIVE Facility Id: FA0010281 Facility Id: FA0013864 Facility Id: FA0013886 Facility Id: FA0016135	14534 RANCHO VISTA D	WSW 1/8 - 1/4 (0.156 mi.)	F20	21
KDC PIPE AND STEEL I Facility Status: INACTIVE Facility Status: ACTIVE Facility Id: FA0004232 Facility Id: FA0004339 Facility Id: FA0006598	14561 MERRILL AVE	W 1/8 - 1/4 (0.159 mi.)	G22	25
JOHNSON LIFT HYSTER	14535 RANCHO VISTA D	SW 1/8 - 1/4 (0.183 mi.)	F25	27

EXECUTIVE SUMMARY

Facility Status: ACTIVE
Facility Id: FA0016643

JOHNSON RENTAL SERVI

Facility Status: INACTIVE
Facility Id: FA0004165

14535 RANCHO VISTA D

SW 1/8 - 1/4 (0.183 mi.)

F26

29

MASTER HALCO, INC.

Facility Status: INACTIVE
Facility Id: FA0004609

9125 CHERRY AVENUE

SW 1/8 - 1/4 (0.248 mi.)

I30

35

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

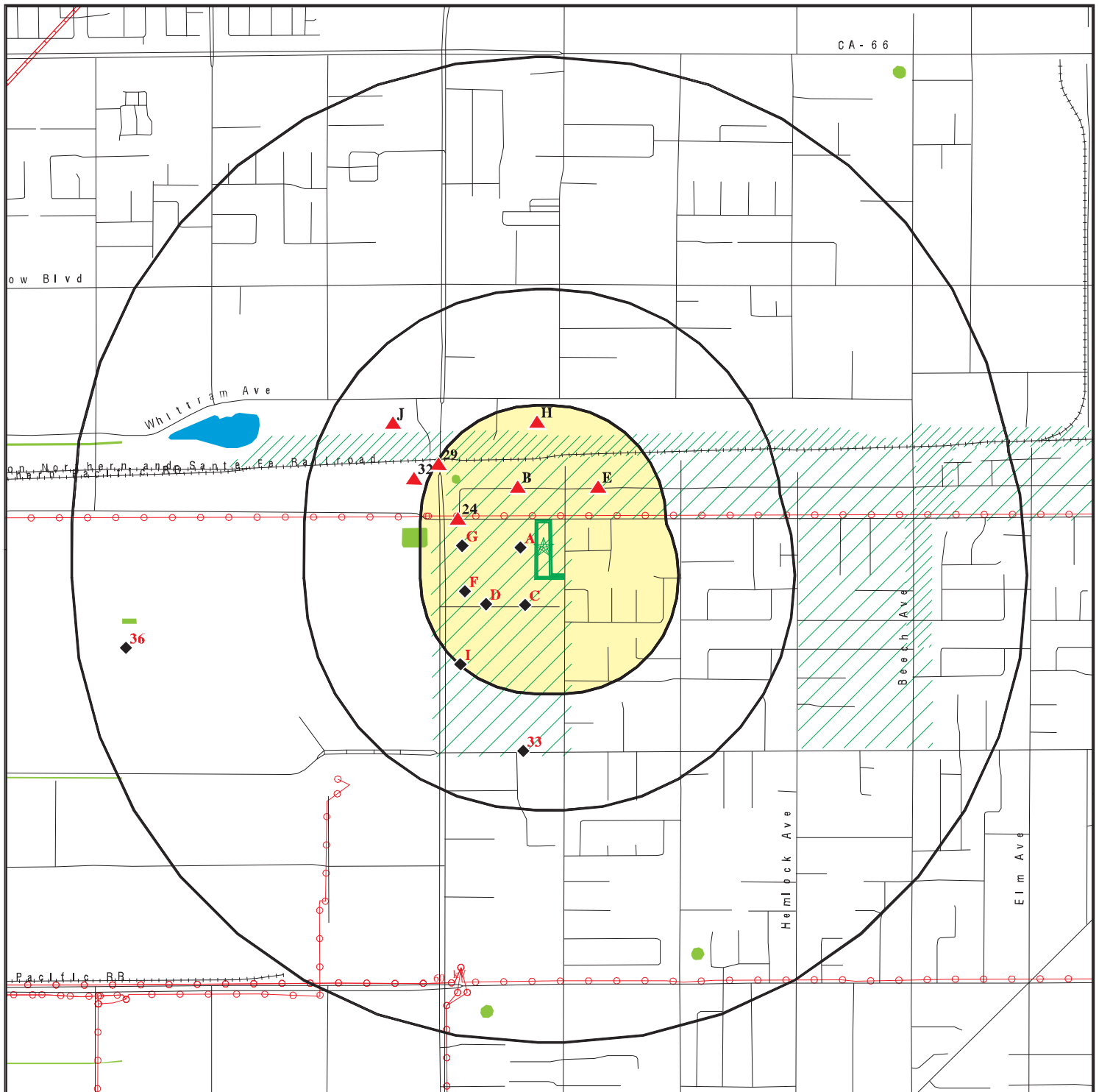
An online review and analysis by CHJ CONSULTANTS of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	14687 RANCHO VISTA	S 0 - 1/8 (0.069 mi.)	C9	15
Not reported	14643 RANCHO VISTA	SSW 0 - 1/8 (0.071 mi.)	C10	16
Not reported	14589 RANCHO VISTA	SW 0 - 1/8 (0.109 mi.)	D15	19
Not reported	14572 RANCHO VISTA	SW 0 - 1/8 (0.122 mi.)	D16	19

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4692389.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

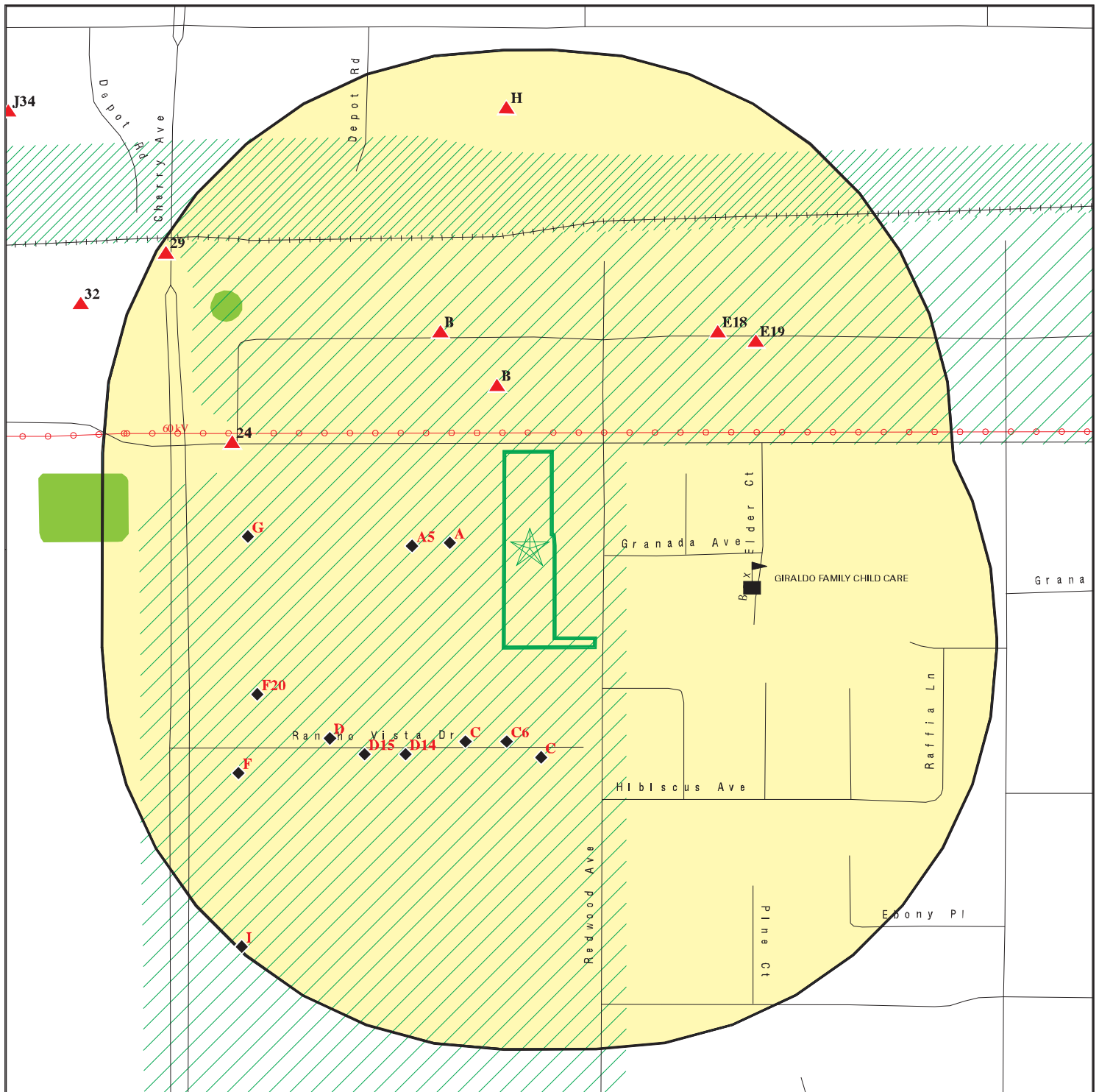
Areas of Concern














This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.


SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana CA 92335
LAT/LONG: 34.091052 / 117.485046

CLIENT: CHJ Consultants
CONTACT: Ann Lauder milk
INQUIRY #: 4692389.2s
DATE: August 04, 2016 4:29 pm

DETAIL MAP - 4692389.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

 Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Proposed CSU Facility, Fontana
 ADDRESS: 14677 Merrill Avenue
 Fontana CA 92335
 LAT/LONG: 34.091052 / 117.485046

CLIENT: CHJ Consultants
 CONTACT: Ann Lauder milk
 INQUIRY #: 4692389.2s
 DATE: August 04, 2016 4:31 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	2	NR	NR	NR	3
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	1	2	0	NR	3
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		0	3	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	1	1	NR	NR	2
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		12	9	NR	NR	NR	21
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		0	17	19	7	1	0	44
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

	Site	Database(s)	EPA ID Number
A1 West < 1/8 0.034 mi. 178 ft.	MORROW EQUIPMENT COMPANY 14645 MERRILL AVE FONTANA, CA 92335 Site 1 of 3 in cluster A	San Bern. Co. Permit	S100940408 N/A
Relative: Lower	San Bern. Co. Permit: Region: SAN BERNARDINO Facility ID: FA0004860 Owner: WEST INVESTMENT COMPANY Permit Number: PT0004231 Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS Facility Status: ACTIVE Expiration Date: 08/31/2016 Region: SAN BERNARDINO Facility ID: FA0004860 Owner: WEST INVESTMENT COMPANY Permit Number: PT0004233 Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR Facility Status: ACTIVE Expiration Date: 08/31/2016		
Actual: 1157 ft.			
A2 West < 1/8 0.038 mi. 199 ft.	MORROW EQUIPMENT CO 14645 MERRILL AVE FONTANA, CA 92335 Site 2 of 3 in cluster A	RCRA-SQG FINDS ECHO	1004675830 CAR000077578
Relative: Lower	RCRA-SQG: Date form received by agency: 07/03/2000 Facility name: MORROW EQUIPMENT CO Facility address: 14645 MERRILL AVE FONTANA, CA 923354219 EPA ID: CAR000077578 Contact: TIM TONER Contact address: 14645 MERRILL AVE FONTANA, CA 923354219 Contact country: US Contact telephone: (909) 829-1565 Contact email: Not reported EPA Region: 09 Classification: Small Small Quantity Generator Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time		
Actual: 1157 ft.			
	Owner/Operator Summary: Owner/operator name: RICK AND JOHN MORROW Owner/operator address: P O BOX 3306 SALEM, OR 97302 Owner/operator country: Not reported Owner/operator telephone: (503) 585-5721 Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MORROW EQUIPMENT CO (Continued)

1004675830

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110002940079

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid: 1004675830
Registry ID: 110002940079
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002940079

B3
NNW
< 1/8
0.039 mi.
207 ft.

TEC OF CALIFORNIA INC
14608 MERRILL AVE
FONTANA, CA 92335

Site 1 of 4 in cluster B

HAZNET **S113100602**
San Bern. Co. Permit **N/A**

Relative:
Higher

HAZNET:
envid: S113100602
Year: 2013
GEPAID: CAL000374201
Contact: GEORGIA FIELD EXT 2214
Telephone: 9093490200

Actual:
1165 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEC OF CALIFORNIA INC (Continued)

S113100602

Mailing Name: Not reported
Mailing Address: 14085 VALLEY BLVD
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Solvents Recovery
Tons: 0.072
Cat Decode: Not reported
Method Decode: Solvents Recovery
Facility County: Not reported

envid: S113100602
Year: 2008
GEPAID: CAL000191655
Contact: RALPH AVILA
Telephone: 9093504546
Mailing Name: Not reported
Mailing Address: 14608 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.2
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113100602
Year: 2008
GEPAID: CAL000191655
Contact: RALPH AVILA
Telephone: 9093504546
Mailing Name: Not reported
Mailing Address: 14608 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Chemical Reduction With Or Without Precipitation
Tons: 4.9623
Cat Decode: Liquids with pH <= 2 with metals
Method Decode: Chemical Reduction With Or Without Precipitation
Facility County: San Bernardino

envid: S113100602
Year: 2007
GEPAID: CAL000191655
Contact: RALPH AVILA
Telephone: 9093504546
Mailing Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEC OF CALIFORNIA INC (Continued)

S113100602

Mailing Address: 14608 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Latex waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.7
Cat Decode: Latex waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113100602
Year: 2007
GEPAID: CAL000191655
Contact: RALPH AVILA
Telephone: 9093504546
Mailing Name: Not reported
Mailing Address: 14608 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Chemical Reduction With Or Without Precipitation
Tons: 4.12
Cat Decode: Liquids with pH <= 2 with metals
Method Decode: Chemical Reduction With Or Without Precipitation
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
21 additional CA_HAZNET: record(s) in the EDR Site Report.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0015651
Owner: THOMPSON, DAVID A
Permit Number: PT0034212
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Region: SAN BERNARDINO
Facility ID: FA0015651
Owner: THOMPSON, DAVID A
Permit Number: PT0034213
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B4
NNW
< 1/8
0.042 mi.
221 ft.
AVILAS GARDEN ART
14608 MERRILL AVE
FONTANA, CA 92335
Site 2 of 4 in cluster B

NPDES
San Bern. Co. Permit
S104567399
N/A

Relative:
Higher

Actual:
1166 ft.

NPDES:
Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 8
Regulatory Measure Id: 317841
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 8 36I020619
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 5/9/2008
PROCESSED DATE: 1/2/2007
STATUS CODE NAME: Active
STATUS DATE: 1/2/2007
PLACE SIZE: 5
PLACE SIZE UNIT: 52
FACILITY CONTACT NAME: Lawrence Avila
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 909-350-4546
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Avilas Garden Art
OPERATOR ADDRESS: 14608 Merrill Ave
OPERATOR CITY: Fontana
OPERATOR STATE: California
OPERATOR ZIP: 92335
OPERATOR CONTACT NAME: Lawrence Avila
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 909-350-4546
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Private Business
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AVILAS GARDEN ART (Continued)

S104567399

CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: Not reported
CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: 3272-Concrete Products, Except Block and Brick
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0009239
Owner: AVILA, RALPH
Permit Number: PT0015608
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 10/31/2008

Region: SAN BERNARDINO
Facility ID: FA0009239
Owner: AVILA, RALPH
Permit Number: PT0015607
Permit Category: HAZARDOUS WASTE GENERATOR - 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 10/31/2008

A5
West
< 1/8
0.057 mi.
303 ft.

MEZA PALLETS INC
14619 MERRILL AVE
FONTANA, CA 92335
Site 3 of 3 in cluster A

San Bern. Co. Permit **S104768169**
N/A

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0004693
Owner: MEZA, LEODEGARIO C.
Permit Number: PT0026356
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2016

Region: SAN BERNARDINO

Actual:
1156 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MEZA PALLETS INC (Continued)

S104768169

Facility ID: FA0004693
Owner: MEZA, LEODEGARIO C.
Permit Number: PT0007934
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2016

C6
South
< 1/8
0.059 mi.
309 ft.

EAGLE IRON ERECTORS, INC
14664 RANCHO VISTA DR
FONTANA, CA 92335

San Bern. Co. Permit

S103454689
N/A

Site 1 of 6 in cluster C

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0002830
Owner: EAGLE IRON ERECTORS, INC
Permit Number: PT0009474
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 11/30/2011

Actual:
1146 ft.

Region: SAN BERNARDINO
Facility ID: FA0002830
Owner: EAGLE IRON ERECTORS, INC
Permit Number: PT0009475
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2011

C7
SSW
< 1/8
0.063 mi.
334 ft.

ROAD MACHINERY COMPANY
14642 RANCHO VISTA DR
FONTANA, CA 92335

San Bern. Co. Permit

S106718034
N/A

Site 2 of 6 in cluster C

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0009437
Owner: ROAD MACHINERY CO.
Permit Number: PT0016124
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 01/31/2007

Actual:
1144 ft.

Region: SAN BERNARDINO
Facility ID: FA0009437
Owner: ROAD MACHINERY CO.
Permit Number: PT0016123
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 01/31/2007

Region: SAN BERNARDINO
Facility ID: FA0010459
Owner: LUCERO, SCOTT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD MACHINERY COMPANY (Continued)

S106718034

Permit Number: PT0017778
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2011

Region: SAN BERNARDINO
Facility ID: FA0010459
Owner: LUCERO, SCOTT
Permit Number: PT0017779
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 08/31/2011

C8
South
< 1/8
0.069 mi.
362 ft.

TOM'S TRUCK PAINTING
14687 RANCHO VISTA DR
FONTANA, CA 92335

San Bern. Co. Permit

S104905456
N/A

Site 3 of 6 in cluster C

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0006709
Owner: TOM'S TRUCK PAINTING
Permit Number: PT0000216
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2017

Actual:
1146 ft.

Region: SAN BERNARDINO
Facility ID: FA0006709
Owner: TOM'S TRUCK PAINTING
Permit Number: PT0000217
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 01/31/2017

C9
South
< 1/8
0.069 mi.
362 ft.

14687 RANCHO VISTA DR
FONTANA, CA 92335

EDR Hist Auto

1015232315
N/A

Site 4 of 6 in cluster C

Relative:
Lower

EDR Historical Auto Stations:

Name: TOMS TRUCK REPAIR & PAINTING
Year: 2006
Address: 14687 RANCHO VISTA DR

Actual:
1146 ft.

Name: TOMS TRUCK REPAIR & PAINTING
Year: 2007
Address: 14687 RANCHO VISTA DR

Name: TOMS TRUCK REPAIR & PAINTING
Year: 2008
Address: 14687 RANCHO VISTA DR

Name: TOMS TRUCK REPAIR & PAINTING

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1015232315

Year: 2009
Address: 14687 RANCHO VISTA DR

Name: TOMS TRUCK REPAIR & PAINTING
Year: 2010
Address: 14687 RANCHO VISTA DR

C10
SSW
< 1/8
0.071 mi.
373 ft.

14643 RANCHO VISTA DR
FONTANA, CA 92335

EDR Hist Auto

1015232055
N/A

Site 5 of 6 in cluster C

Relative:
Lower

EDR Historical Auto Stations:

Name: MIDWEST LUBE
Year: 2005
Address: 14643 RANCHO VISTA DR

Actual:
1144 ft.

Name: MIDWEST LUBE
Year: 2006
Address: 14643 RANCHO VISTA DR

Name: MIDWEST LUBE
Year: 2007
Address: 14643 RANCHO VISTA DR

Name: MIDWEST LUBE
Year: 2008
Address: 14643 RANCHO VISTA DR

Name: MIDWEST LUBE
Year: 2009
Address: 14643 RANCHO VISTA DR

C11
SSW
< 1/8
0.071 mi.
373 ft.

VECTOR INTERNATIONAL EQUIPMENT
14643 RANCHO VISTA DR
FONTANA, CA 92335

San Bern. Co. Permit

S108087243
N/A

Site 6 of 6 in cluster C

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0008004
Owner: KENNETH J ALLISON
Permit Number: PT0014072
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 10/31/2006

Actual:
1144 ft.

Region: SAN BERNARDINO
Facility ID: FA0010502
Owner: AUSTIN EQUIPMENT SERVICES
Permit Number: PT0017861
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VECTOR INTERNATIONAL EQUIPMENT (Continued)

S108087243

Region: SAN BERNARDINO
Facility ID: FA0010502
Owner: AUSTIN EQUIPMENT SERVICES
Permit Number: PT0017860
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2006

B12
NNW
< 1/8
0.080 mi.
423 ft.
BLUE ROSE CONCRETE CONTRACTORS, INC
14636 CERES AVE
FONTANA, CA 92335
Site 3 of 4 in cluster B

San Bern. Co. Permit **S107030223**
N/A

Relative:
Higher

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0009865
Owner: HERNANDEZ, JAMES
Permit Number: PT0016957
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2012

Actual:
1168 ft.

Region: SAN BERNARDINO
Facility ID: FA0009865
Owner: HERNANDEZ, JAMES
Permit Number: PT0016956
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2012

B13
NNW
< 1/8
0.085 mi.
448 ft.
JC CONCRETE INC
14626 CERES AVE
FONTANA, CA 92335
Site 4 of 4 in cluster B

HAZNET **S112142775**
San Bern. Co. Permit **N/A**

Relative:
Higher

HAZNET:

envid: S112142775
Year: 2014
GEPAID: CAL000370482
Contact: CYNTHIA MARIN
Telephone: 9098236190
Mailing Name: Not reported
Mailing Address: 14626 CERES AVE
Mailing City, St, Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05
Cat Decode: Unspecified oil-containing waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JC CONCRETE INC (Continued)

S112142775

Facility County: San Bernardino

envid: S112142775
Year: 2013
GEPAID: CAL000370482
Contact: CYNTHIA MARIN
Telephone: 9098236190
Mailing Name: Not reported
Mailing Address: 14626 CERES AVE
Mailing City, St, Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD981696420
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery (H010-H129) Or (H131-H135)
Tons: 0.025
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery (H010-H129) Or (H131-H135)
Facility County: Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0014705
Owner: JC CONCRETE INC
Permit Number: PT0025652
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2016

Region: SAN BERNARDINO
Facility ID: FA0014705
Owner: JC CONCRETE INC
Permit Number: PT0025651
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2016

D14
SSW
< 1/8
0.090 mi.
476 ft.

TEC EQUIPMENT
14611 RANCHO VISTA DR
FONTANA, CA 92335

San Bern. Co. Permit **S108205395**
N/A

Site 1 of 4 in cluster D

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0014429
Owner: THOMPSON, DAVID A
Permit Number: PT0025304
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Region: SAN BERNARDINO
Facility ID: FA0014429
Owner: THOMPSON, DAVID A

Actual:
1142 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEC EQUIPMENT (Continued)

S108205395

Permit Number: PT0025303
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 05/31/2014

D15
SW
< 1/8
0.109 mi.
576 ft.

14589 RANCHO VISTA DR
FONTANA, CA 92335

EDR Hist Auto

1015231243
N/A

Site 2 of 4 in cluster D

Relative:
Lower

EDR Historical Auto Stations:

Name: ACADEMY AUTOMOTIVE INC
Year: 2007
Address: 14589 RANCHO VISTA DR

Actual:
1142 ft.

Name: ACADEMY AUTOMOTIVE INC
Year: 2008
Address: 14589 RANCHO VISTA DR

Name: ACADEMY AUTOMOTIVE
Year: 2009
Address: 14589 RANCHO VISTA DR

Name: ACADEMY AUTOMOTIVE
Year: 2010
Address: 14589 RANCHO VISTA DR

D16
SW
< 1/8
0.122 mi.
645 ft.

14572 RANCHO VISTA DR
FONTANA, CA 92335

EDR Hist Auto

1015231162
N/A

Site 3 of 4 in cluster D

Relative:
Lower

EDR Historical Auto Stations:

Name: WESTERN MACHINE & REPAIR
Year: 2006
Address: 14572 RANCHO VISTA DR

Actual:
1144 ft.

Name: WESTERN MACHINE & REPAIR
Year: 2007
Address: 14572 RANCHO VISTA DR

D17
SW
< 1/8
0.122 mi.
645 ft.

RAY GASKIN SERVICE
14572 RANCHO VISTA AVE
FONTANA, CA 92335

San Bern. Co. Permit

S109433596
N/A

Site 4 of 4 in cluster D

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0013913
Owner: WILLIAM MCINTOSH
Permit Number: PT0024464
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS

Actual:
1144 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RAY GASKIN SERVICE (Continued)

S109433596

Facility Status: ACTIVE
Expiration Date: 09/30/2016

Region: SAN BERNARDINO
Facility ID: FA0013913
Owner: WILLIAM MCINTOSH
Permit Number: PT0024465
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2016

**E18
NE
1/8-1/4
0.128 mi.
674 ft.**

**CABRILLO HOIST
14754 CERES AVE
FONTANA, CA 92335**

San Bern. Co. Permit

**S109439364
N/A**

Site 1 of 2 in cluster E

**Relative:
Higher**

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0012738
Owner: ENGEL HOLDINGS INC
Permit Number: PT0022244
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2016

**Actual:
1171 ft.**

Region: SAN BERNARDINO
Facility ID: FA0012738
Owner: ENGEL HOLDINGS INC
Permit Number: PT0022245
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2016

**E19
NE
1/8-1/4
0.145 mi.
763 ft.**

**FONTANA WATER CO -F22
14777 CERES AVE
FONTANA, CA 92335**

San Bern. Co. Permit

**S105482012
N/A**

Site 2 of 2 in cluster E

**Relative:
Higher**

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0000039
Owner: San Gabriel Valley Water Company
Permit Number: PT0010087
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 12/31/2016

**Actual:
1171 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F20
WSW
1/8-1/4
0.156 mi.
824 ft.

MG MOBILE WASH
14534 RANCHO VISTA DR
FONTANA, CA 92335

Site 1 of 3 in cluster F

San Bern. Co. Permit

AST S107863421
N/A

Relative:
Lower

AST:

Certified Unified Program Agencies: San Bernardino
Owner: SUNBELT RENTALS
Total Gallons: 1,545

Actual:
1147 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0010281
Owner: SUNBELT RENTALS
Permit Number: PT0017581
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2013

Region: SAN BERNARDINO
Facility ID: FA0010281
Owner: SUNBELT RENTALS
Permit Number: PT0017583
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 05/31/2013

Region: SAN BERNARDINO
Facility ID: FA0010281
Owner: SUNBELT RENTALS
Permit Number: PT0017582
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2013

Region: SAN BERNARDINO
Facility ID: FA0013864
Owner: GUTIERREZ, MARIO
Permit Number: PT0024357
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Region: SAN BERNARDINO
Facility ID: FA0013886
Owner: GUTIERREZ, MARIO
Permit Number: PT0024399
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2012

Region: SAN BERNARDINO
Facility ID: FA0016135
Owner: Westrux International, Inc.
Permit Number: PT0034871
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 08/31/2016

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MG MOBILE WASH (Continued)

S107863421

Region: SAN BERNARDINO
Facility ID: FA0016135
Owner: Westrux International, Inc.
Permit Number: PT0034870
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 08/31/2016

G21
West
1/8-1/4
0.159 mi.
842 ft.

T C I LEASING RENTALS
14561 MERRILL AVE
FONTANA, CA 92335
Site 1 of 3 in cluster G

RCRA-SQG **1001967624**
FINDS **CAR000071274**
HAZNET
ECHO

Relative:
Lower

RCRA-SQG:
Date form received by agency: 04/20/2000
Facility name: T C I LEASING RENTALS

Actual:
1155 ft.

Facility address: 14561 MERRILL AVE
FONTANA, CA 92335
EPA ID: CAR000071274
Contact: ALAN ROSAS
Contact address: 14561 MERRILL AVE
FONTANA, CA 92335

Contact country: US
Contact telephone: (909) 355-8545
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: GERRY FLYNN
Owner/operator address: 4950 TRIGGS ST
COMMERCE, CA 90022
Owner/operator country: Not reported
Owner/operator telephone: (323) 269-3033
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T C I LEASING RENTALS (Continued)

1001967624

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D000
. Waste name: Not Defined

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002935780

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid: 1001967624
Year: 2014
GEPAID: CAR000071274
Contact: ALEX SOSA SERVICE MANAGER
Telephone: 9093558545
Mailing Name: Not reported
Mailing Address: 14561 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.7
Cat Decode: Unspecified oil-containing waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: 1001967624
Year: 2014
GEPAID: CAR000071274
Contact: ALEX SOSA SERVICE MANAGER
Telephone: 9093558545

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T C I LEASING RENTALS (Continued)

1001967624

Mailing Name: Not reported
Mailing Address: 14561 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: NED981723513
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.15
Cat Decode: Not reported
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: San Bernardino

envid: 1001967624
Year: 2013
GEPAID: CAR000071274
Contact: ALEX SOSA SERVICE MANAGER
Telephone: 9093558545
Mailing Name: Not reported
Mailing Address: 14561 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD981696420
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

envid: 1001967624
Year: 2012
GEPAID: CAR000071274
Contact: ALEX SOSA SERVICE MANAGER
Telephone: 9093558545
Mailing Name: Not reported
Mailing Address: 14561 MERRILL AVE
Mailing City,St,Zip: FONTANA, CA 923350000
Gen County: San Bernardino
TSD EPA ID: CAD981696420
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.5
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: 1001967624
Year: 2011
GEPAID: CAR000071274
Contact: ALEX SOSA SERVICE MANAGER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

T C I LEASING RENTALS (Continued)

1001967624

Telephone: 9093558545
Mailing Name: Not reported
Mailing Address: 14561 MERRILL AVE
Mailing City, St, Zip: FONTANA, CA 923350000
Gen County: Not reported
TSD EPA ID: AZR000501510
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery
(H010-H129) Or (H131-H135)
Tons: 1.25
Cat Decode: Unspecified oil-containing waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Recovery
(H010-H129) Or (H131-H135)
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
28 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:

Envid: 1001967624
Registry ID: 110002935780
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002935780

G22
West
1/8-1/4
0.159 mi.
842 ft.

KDC PIPE AND STEEL INC
14561 MERRILL AVE
FONTANA, CA 92335
Site 2 of 3 in cluster G

San Bern. Co. Permit **S102039229**
N/A

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0004232
Owner: KDC HOLDINGS, INC
Permit Number: PT0007955
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2004

Region: SAN BERNARDINO
Facility ID: FA0004339
Owner: NEW CINGULAR WIRELESS PCS, LLC
Permit Number: PT0009262
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 11/30/2016

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0013925
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 02/28/2004

Region: SAN BERNARDINO
Facility ID: FA0006598

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KDC PIPE AND STEEL INC (Continued)

S102039229

Owner: FLYNN, GERALD
Permit Number: PT0025002
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 02/28/2014

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0020304
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 02/28/2017

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0013924
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 02/28/2017

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0000060
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 02/28/2017

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0012652
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: ACTIVE
Expiration Date: 02/28/2017

Region: SAN BERNARDINO
Facility ID: FA0006598
Owner: FLYNN, GERALD
Permit Number: PT0013926
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 02/28/2003

G23
West
1/8-1/4
0.161 mi.
852 ft.

TCI LEASING
14561 MERRILL AVE
FONTANA, CA 92335
Site 3 of 3 in cluster G

UST **U003775819**
AST **N/A**

Relative:
Lower

UST:
Facility ID: 47981
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.0923639
Longitude: -117.4864845

Actual:
1155 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TCI LEASING (Continued)

U003775819

AST:

Certified Unified Program Agencies: San Bernardino
Owner: FLYNN, GERALD
Total Gallons: 2,530

24
WNW
1/8-1/4
0.170 mi.
895 ft.

FONTANA WATER CO -F37
14500 CERES AVE
FONTANA, CA 92335

San Bern. Co. Permit **S105697478**
N/A

Relative:
Higher

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0003285
Owner: San Gabriel Valley Water Company
Permit Number: PT0009038
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 12/31/2010

Actual:
1160 ft.

F25
SW
1/8-1/4
0.183 mi.
965 ft.

JOHNSON LIFT HYSTER
14535 RANCHO VISTA DR
FONTANA, CA 92335

HAZNET **S113113405**
San Bern. Co. Permit **N/A**

Site 2 of 3 in cluster F

Relative:
Lower

HAZNET:

envid: S113113405
Year: 2014
GEPAID: CAL000224668
Contact: JERRY WELCH
Telephone: 9515385731
Mailing Name: Not reported
Mailing Address: PO BOX 351
Mailing City,St,Zip: RIVERSIDE, CA 925020351
Gen County: San Bernardino
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Unspecified organic liquid mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.125
Cat Decode: Unspecified organic liquid mixture
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: San Bernardino

Actual:
1143 ft.

envid: S113113405
Year: 2013
GEPAID: CAL000224668
Contact: Jerry Welch
Telephone: 9515385731
Mailing Name: Not reported
Mailing Address: PO BOX 351
Mailing City,St,Zip: RIVERSIDE, CA 925020351
Gen County: San Bernardino
TSD EPA ID: CAD008302903
TSD County: Los Angeles

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON LIFT HYSTER (Continued)

S113113405

Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.075
Cat Decode: Not reported
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Not reported

envid: S113113405
Year: 2012
GEPAID: CAL000224668
Contact: JERRY WELCH
Telephone: 9515385731
Mailing Name: Not reported
Mailing Address: PO BOX 351
Mailing City,St,Zip: RIVERSIDE, CA 92502
Gen County: San Bernardino
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.18765
Cat Decode: Not reported
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: San Bernardino

envid: S113113405
Year: 2012
GEPAID: CAL000224668
Contact: JERRY WELCH
Telephone: 9515385731
Mailing Name: Not reported
Mailing Address: PO BOX 351
Mailing City,St,Zip: RIVERSIDE, CA 92502
Gen County: San Bernardino
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.18765
Cat Decode: Not reported
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: San Bernardino

envid: S113113405
Year: 2006
GEPAID: CAL000224668
Contact: JERRY WELCH-ADNIN ASSISTANT
Telephone: 9096864560
Mailing Name: Not reported
Mailing Address: PO BOX 351
Mailing City,St,Zip: RIVERSIDE, CA 925020000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Transfer Station
Tons: 0.35

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON LIFT HYSTER (Continued)

S113113405

Cat Decode: Other organic solids
Method Decode: Transfer Station
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0016643
Owner: PAPE MATERIAL HANDLING
Permit Number: PT0035824
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 03/31/2017

Region: SAN BERNARDINO
Facility ID: FA0016643
Owner: PAPE MATERIAL HANDLING
Permit Number: PT0035830
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 03/31/2017

Region: SAN BERNARDINO
Facility ID: FA0016643
Owner: PAPE MATERIAL HANDLING
Permit Number: PT0035825
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 03/31/2017

F26
SW
1/8-1/4
0.183 mi.
965 ft.

JOHNSON RENTAL SERVICE
14535 RANCHO VISTA DR
FONTANA, CA 92335

AST S105047749
San Bern. Co. Permit N/A

Site 3 of 3 in cluster F

Relative:
Lower

AST:
Certified Unified Program Agencies: San Bernardino
Owner: JOHNSON MACHINERY
Total Gallons: 6,140

Actual:
1143 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0004165
Owner: JOHNSON MACHINERY COMPANY
Permit Number: PT0000656
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2017

Region: SAN BERNARDINO
Facility ID: FA0004165
Owner: JOHNSON MACHINERY COMPANY
Permit Number: PT0000698
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON RENTAL SERVICE (Continued)

S105047749

Facility Status: INACTIVE
Expiration Date: 04/30/2017

Region: SAN BERNARDINO
Facility ID: FA0004165
Owner: JOHNSON MACHINERY COMPANY
Permit Number: PT0000692
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 04/30/2017

H27
North
1/8-1/4
0.214 mi.
1132 ft.

J B AUTO SALVAGE
14717 WHITTRAM
FONTANA, CA 92335

NPDES
San Bern. Co. Permit

S106910930
N/A

Site 1 of 2 in cluster H

Relative:
Higher

NPDES:

Actual:
1180 ft.

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 437915
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 36I024268
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/22/2013
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: ASK AUTO DISMANTLERS
Discharge Address: 14717 Whittram ave
Discharge City: Fontana
Discharge State: California
Discharge Zip: 92335
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

J B AUTO SALVAGE (Continued)

S106910930

OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0004051
Owner: JUAREZ, ERNEST & BENNY
Permit Number: PT0003353
Permit Category: HAZMAT HANDLER - UST ONLY
Facility Status: INACTIVE
Expiration Date: 05/31/1989

Region: SAN BERNARDINO
Facility ID: FA0004051
Owner: JUAREZ, ERNEST & BENNY
Permit Number: PT0011254
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 05/31/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

H28
North
1/8-1/4
0.214 mi.
1132 ft.

J B AUTO SALVAGE
14717 WHITTRAM AVE
FONTANA, CA 92335
Site 2 of 2 in cluster H

UST **U003784962**
N/A

Relative:
Higher

UST:
Facility ID: 87013773
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.096418
Longitude: -117.482816

Actual:
1180 ft.

29
NW
1/8-1/4
0.245 mi.
1291 ft.

KOPPERS CO INC
8810 CHERRY AVE
FONTANA, CA 92335

RCRA-SQG **1000346590**
HIST UST **CAD073568677**
FINDS
EMI
ECHO

Relative:
Higher

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: KOPPERS CO INC
Facility address: 8810 CHERRY AVE
FONTANA, CA 92335
EPA ID: CAD073568677
Mailing address: BOX FOURTH HUNDRED EIGHTY NINE
FONTANA, CA 92335
Contact: Not reported
Contact address: Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:
1168 ft.

Owner/Operator Summary:

Owner/operator name: KOPPERS COMPANY INC
Owner/operator address: KOPPERS BUILDING
CITY NOT REPORTED, PA 99999
Owner/operator country: Not reported
Owner/operator telephone: (412) 327-2000
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: KOPPERS COMPANY INC
Owner/operator address: KOPPERS BUILDING
PITTSBURGH, PA 15219
Owner/operator country: Not reported
Owner/operator telephone: (412) 327-2000
Legal status: Private
Owner/Operator Type: Owner

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KOPPERS CO INC (Continued)

1000346590

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 08/18/1980
Site name: KOPPERS CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 08/06/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

HIST UST:

File Number: 0002A13D
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A13D.pdf>
Region: STATE
Facility ID: 00000019457
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: FONTANA PLANT
Telephone: 7143500999
Owner Name: KOPPERS COMPANY, INC.
Owner Address: KOPPERS BUILDING
Owner City,St,Zip: PITTSBURGH, PA 15219
Total Tanks: 0003

Tank Num: 001
Container Num: 17
Year Installed: 1953
Tank Capacity: 00012000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KOPPERS CO INC (Continued)

1000346590

Tank Num: 002
Container Num: 15
Year Installed: 1954
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 3/4
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 16
Year Installed: 1953
Tank Capacity: 00001000
Tank Used for: Not reported
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

FINDS:

Registry ID: 110002657287

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EMI:

Year: 1987
County Code: 36
Air Basin: SC
Facility ID: 21918
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KOPPERS CO INC (Continued)

1000346590

ECHO:

Envid: 1000346590
Registry ID: 110002657287
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002657287

**I30
SW
1/8-1/4
0.248 mi.
1307 ft.**

**MASTER HALCO, INC.
9125 CHERRY AVENUE
FONTANA, CA 92335

Site 1 of 2 in cluster I**

**ENVIROSTOR
VCP
NPDES
San Bern. Co. Permit
WDS**

**1005452065
N/A**

**Relative:
Lower**

ENVIROSTOR:

**Actual:
1135 ft.**

Facility ID: 36500011
Status: Refer: RCRA
Status Date: 08/23/2005
Site Code: Not reported
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 17.6
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Emad Yemut
Division Branch: Cleanup Cypress
Assembly: 63
Senate: Not reported
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110021082004
Alias Type: EPA (FRS #)
Alias Name: 36500011
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/03/2005
Comments: DTSC entered into A Voluntary Cleanup Agreement (VCA) Docket number HSA-A 04/05-147. The purpose of this Agreement is for DTSC to conduct an evaluation of existing reports and data provided by the Proponent. The focus of the review would be to determine if enough information is available to determine whether or not further action is necessary at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

Completed Date: 03/15/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:

Facility ID: 36500011
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 17.6
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Emad Yemut
Division Branch: Cleanup Cypress
Site Code: Not reported
Assembly: 63
Senate: Not reported
Special Programs Code: Voluntary Cleanup Program
Status: Refer: RCRA
Status Date: 08/23/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 0 / 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110021082004
Alias Type: EPA (FRS #)
Alias Name: 36500011
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/03/2005
Comments: DTSC entered into A Voluntary Cleanup Agreement (VCA) Docket number HSA-A 04/05-147. The purpose of this Agreement is for DTSC to conduct an evaluation of existing reports and data provided by the Proponent. The focus of the review would be to determine if enough information is available to determine whether or not further action is necessary at the Site.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/15/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

NPDES:

Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 8
Regulatory Measure Id: 213076
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 8 36I000213
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 5/9/2008
PROCESSED DATE: 3/2/1992
STATUS CODE NAME: Active
STATUS DATE: 3/2/1992
PLACE SIZE: 158710
PLACE SIZE UNIT: 53
FACILITY CONTACT NAME: Oleg Borodulin
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 800-989-4740
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: oborodulin@fenceonline.com
OPERATOR NAME: Master Halco, Inc.
OPERATOR ADDRESS: 9125 Cherry Avenue
OPERATOR CITY: Fontana
OPERATOR STATE: California
OPERATOR ZIP: 92335
OPERATOR CONTACT NAME: Oleg Borodulin
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 800-989-4740
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: oborodulin@fenceonline.com

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	909-350-4740
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Santa Ana River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3499-Fabricated Metal Products, NEC
SECONDARY SIC:	3471-Electroplating, Plating, Polishing, Anodizing, and Coloring
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	213076
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 36I000213
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/02/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/01/2015
Discharge Name:	Master Halco Inc
Discharge Address:	9125 Cherry Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

San Bern. Co. Permit:
Region: SAN BERNARDINO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

Facility ID: FA0004609
Owner: MASTER HALCO INC
Permit Number: PT0003283
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Region: SAN BERNARDINO
Facility ID: FA0004609
Owner: MASTER HALCO INC
Permit Number: PT0013162
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 09/30/2003

Region: SAN BERNARDINO
Facility ID: FA0004609
Owner: MASTER HALCO INC
Permit Number: PT0003282
Permit Category: PBR ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 09/30/2012

Region: SAN BERNARDINO
Facility ID: FA0004609
Owner: MASTER HALCO INC
Permit Number: PT0017478
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 09/30/2012

Region: SAN BERNARDINO
Facility ID: FA0004609
Owner: MASTER HALCO INC
Permit Number: PT0003284
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2013

WDS:

Facility ID: Santa Ana River 36I000213
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: MASTER-HALCO INC
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Not reported
SIC Code: 0
SIC Code 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO, INC. (Continued)

1005452065

Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

I31
SW
1/4-1/2
0.257 mi.
1358 ft.

MASTER HALCO
9125 CHERRY AVE.
FONTANA, CA 92335

Site 2 of 2 in cluster I

RCRA-LQG
ENVIROSTOR
UST

1000401489
CAD982012965

Relative:
Lower

RCRA-LQG:

Actual:
1134 ft.

Date form received by agency: 04/29/2010
Facility name: MASTER HALCO
Facility address: 9125 CHERRY AVE.
FONTANA, CA 92335
EPA ID: CAD982012965
Mailing address: CHERRY AVE.
FONTANA, CA 92335
Contact: OLEG BORODULIN
Contact address: CHERRY AVE.
FONTANA, CA 92335
Contact country: US
Contact telephone: (909) 350-4740
Contact email: OBOBODULIN@FENCEONLINE.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO (Continued)

1000401489

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: MASTER HALCO
Owner/operator address: 4000 METROPOLITAN DRIVE #400
ORANGE, CA 92868
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Owner/operator name: MASTER HALCO, INC
Owner/operator address: ONE CITY BLVD, SUITE 900
ORANGE, CA 92868
Owner/operator country: US
Owner/operator telephone: (714) 385-0091
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Owner/operator name: MASTER HALCO INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MASTER HALCO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MASTER HALCO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO (Continued)

1000401489

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 132
. Waste name: 132

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 171
. Waste name: 171

. Waste code: 181
. Waste name: 181

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

Historical Generators:

Date form received by agency: 02/26/2008
Site name: MASTER HALCO
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

Date form received by agency: 09/01/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO (Continued)

1000401489

Site name: MASTER HALCO INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: MASTER HALCO INC
Classification: Small Quantity Generator

Date form received by agency: 07/13/1987
Site name: MASTER HALCO INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/20/2008
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 03/20/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

ENVIROSTOR:

Facility ID: 71002958
Status: Active
Status Date: 11/13/2014
Site Code: 550018
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Poonam Acharya
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.08778
Longitude: -117.4887
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL, METAL FINISHING

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO (Continued)

1000401489

Potential COC: Zinc
Confirmed COC: Zinc
Potential Description: SOIL
Alias Name: CAD982012965
Alias Type: EPA Identification Number
Alias Name: 110002776210
Alias Type: EPA (FRS #)
Alias Name: 540091
Alias Type: Project Code (Site Code)
Alias Name: 550018
Alias Type: Project Code (Site Code)
Alias Name: 71002958
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 12/31/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/30/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 03/31/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/29/2014
Comments: Letter agreement was signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 04/08/2015
Comments: Agreement fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/29/2015
Comments: FY 1516 Cost Estimate Letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/30/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MASTER HALCO (Continued)

1000401489

Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/04/2014
Comments: Comment letter was sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/04/2014
Comments: Comments were sent out.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/04/2014
Comments: The comment letter was sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 06/15/2015
Comments: work plan was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/20/2016
Comments: FI Report was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/04/2015
Comments: fieldwork was implemented.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

UST:

Facility ID: 87013223
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.08765
Longitude: -117.48872

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

32
WNW
1/4-1/2
0.279 mi.
1475 ft.

SOUTHERN PACIFIC-KAISER SIDING
ETIWANDA AVE
FONTANA, CA 92335

LUST S102437881
N/A

Relative:
Higher

LUST REG 8:

Actual:
1165 ft.

Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083600996T
Local Case Num: 87092
Case Type: Soil only
Substance: Heater Fuel
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: SLOVER
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607100107
How Stopped Date: 3/25/1988
Enter Date: 8/24/1988
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 3/25/1988
Enforcement Date: Not reported
Close Date: 2/1/1989
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: 8/25/1988
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: 8/24/1988
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 34.0894593
Longitude: -117.4487517
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 0
MTBE Tested: Not Required to be Tested.
MTBE Class: *
Staff: TME
Staff Initials: Not reported
Lead Agency: Local Agency
Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN PACIFIC-KAISER SIDING (Continued)

S102437881

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

33
South
1/4-1/2
0.374 mi.
1973 ft.

RDA RESIDENCE
14636 RANDALL AVE.
FONTANA, CA 92335

SLIC S111121310
N/A

Relative:
Lower

SLIC:

Region: STATE
Facility Status: Completed - Case Closed
Status Date: 05/16/2012
Global Id: T10000003133
Lead Agency: SAN BERNARDINO COUNTY
Lead Agency Case Number: RO0001334V
Latitude: 34.085641
Longitude: -117.485663
Case Type: Cleanup Program Site
Case Worker: CB
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Soil
Potential Contaminants of Concern: Diesel

Actual:
1122 ft.

Site History: This is a voluntary cleanup site. Requested by the County RDA to provide oversight. Planning to conduct waste removal via excavation and hauling of other materials.

[Click here to access the California GeoTracker records for this facility:](#)

J34
NW
1/4-1/2
0.375 mi.
1979 ft.

ADVANCED STEEL RECOVERY
14451 WHITTRAM AVENUE
FONTANA, CA 92335

ENVIROSTOR S106105344
VCP N/A
NPDES
San Bern. Co. Permit
WDS

Site 1 of 2 in cluster J

Relative:
Higher

ENVIROSTOR:

Facility ID: 60002306
Status: Active
Status Date: 02/25/2016
Site Code: 401734
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 3.71
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 52
Senate: , 20
Special Program: Not reported

Actual:
1171 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.09492
Longitude: -117.4904
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 401734
Alias Type: Project Code (Site Code)
Alias Name: 60002306
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:

Facility ID: 60002306
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.71
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Rana Georges
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 401734
Assembly: , 52
Senate: , 20
Special Programs Code: Not reported
Status: Active
Status Date: 02/25/2016
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 34.09492 / -117.4904
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 401734
Alias Type: Project Code (Site Code)
Alias Name: 60002306
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

NPDES:

Npdes Number: Not reported
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 427026
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 36MR000022
Program Type: Region 8 - Scrap Metal Permit
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/17/2012
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Advanced Steel Recovery
Discharge Address: 14451 Whittram Ave
Discharge City: Fontana
Discharge State: California
Discharge Zip: 92335
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	8
Regulatory Measure Id:	213621
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	8 361016927
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	11/21/2001
STATUS CODE NAME:	Active
STATUS DATE:	11/21/2001
PLACE SIZE:	4
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Wilton Gross
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	909-355-2372
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Advanced Steel Recovery Inc
OPERATOR ADDRESS:	PO Box 3793
OPERATOR CITY:	Rancho Cucamonga
OPERATOR STATE:	California
OPERATOR ZIP:	91729
OPERATOR CONTACT NAME:	Nathan Frankel
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	909-355-2372
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	909-355-2372
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	5093-Scrap and Waste Materials
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0016068
Owner: Nathan Frankel
Permit Number: PT0035685
Permit Category: SUPER LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2017

Region: SAN BERNARDINO
Facility ID: FA0016068
Owner: Nathan Frankel
Permit Number: PT0034767
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2017

Region: SAN BERNARDINO
Facility ID: FA0016068
Owner: Nathan Frankel
Permit Number: PT0034766
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 05/31/2017

WDS:

Facility ID: Santa Ana River 36I016927
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: 9093552372
Facility Contact: NATHAN FRANKEL
Agency Name: FRANKEL NATHAN
Agency Address: PO Box 3793
Agency City,St,Zip: Rancho Cucamonga 917293793
Agency Contact: NATHAN FRANKEL
Agency Telephone: 9093552372
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADVANCED STEEL RECOVERY (Continued)

S106105344

Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

J35
NW
1/4-1/2
0.379 mi.
2003 ft.

ANGELUS BLOCK CO INC
14515 WHITTRAM AVE
FONTANA, CA 92335
Site 2 of 2 in cluster J

LUST
HIST CORTESE
NPDES
San Bern. Co. Permit
WDS

S100929610
N/A

Relative:
Higher

Actual:
1170 ft.

LUST:
Region: STATE
Global Id: T0607100304
Latitude: 34.094944
Longitude: -117.487162
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/28/1994
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 083602362T
LOC Case Number: 93062
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0607100304
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

Status History:

Global Id: T0607100304
Status: Completed - Case Closed
Status Date: 04/28/1994

Global Id: T0607100304
Status: Open - Case Begin Date
Status Date: 10/21/1993

Global Id: T0607100304
Status: Open - Site Assessment
Status Date: 10/21/1993

Global Id: T0607100304
Status: Open - Site Assessment
Status Date: 11/08/1993

Regulatory Activities:

Global Id: T0607100304
Action Type: Other
Date: 10/21/1993
Action: Leak Discovery

Global Id: T0607100304
Action Type: Other
Date: 11/16/1993
Action: Leak Reported

Global Id: T0607100304
Action Type: REMEDIATION
Date: 04/25/2006
Action: Not reported

Global Id: T0607100304
Action Type: ENFORCEMENT
Date: 04/28/1994
Action: Closure/No Further Action Letter

Global Id: T0607100304
Action Type: Other
Date: 10/21/1993
Action: Leak Stopped

Global Id: T0607100304
Action Type: REMEDIATION
Date: 10/21/1993
Action: Excavation

LUST REG 8:

Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602362T
Local Case Num: 93062

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	REDWOOD
Enf Type:	CLOS
Funding:	Federal Funds
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0607100304
How Stopped Date:	10/21/1993
Enter Date:	1/7/1994
Date Confirmation of Leak Began:	10/21/1993
Date Preliminary Assessment Began:	Not reported
Discover Date:	10/21/1993
Enforcement Date:	Not reported
Close Date:	4/28/1994
Date Prelim Assessment Workplan Submitted:	11/8/1993
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/7/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0955779
Longitude:	-117.4883971
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	CAB
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602362T

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	8
Regulatory Measure Id:	213188
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	8 36I004551
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/8/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/8/1992
PLACE SIZE:	9
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	David Dumond
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	davcdumond@angelusblock.com
OPERATOR NAME:	Angelus Block Co Inc
OPERATOR ADDRESS:	1705 N Main St
OPERATOR CITY:	Orange
OPERATOR STATE:	California
OPERATOR ZIP:	92865
OPERATOR CONTACT NAME:	David Dumond
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	714-637-8594
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	davedumond@angelusblock.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	714-637-8594
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESCRIPTION: Not reported
CONSTYPE OTHER IND: Not reported
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: Not reported
RECEIVING WATER NAME: Lytle Creek
CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: 3271-Concrete Block and Brick
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 213188
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 36I004551
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/08/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Angelus Block Co Inc
Discharge Address: 11374 Tuxford St
Discharge City: Sun Valley
Discharge State: California
Discharge Zip: 91352
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0000958
Owner: ANTONINI, EDWARD
Permit Number: PT0002225
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2017

Region: SAN BERNARDINO
Facility ID: FA0000958
Owner: ANTONINI, EDWARD
Permit Number: PT0002226
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2017

Region: SAN BERNARDINO

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

Facility ID: FA0000958
Owner: ANTONINI, EDWARD
Permit Number: PT0022589
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Region: SAN BERNARDINO
Facility ID: FA0000958
Owner: ANTONINI, EDWARD
Permit Number: PT0022588
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 05/31/2017

WDS:

Facility ID: Santa Ana River 36I004551
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: 8187678576
Facility Contact: DAVID DUMOND
Agency Name: ANGELUS BLOCK CO INC - ORANGE
Agency Address: 1705 N MAIN ST
Agency City,St,Zip: ORANGE 92865
Agency Contact: DAVID DUMOND
Agency Telephone: 8187678576
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANGELUS BLOCK CO INC (Continued)

S100929610

management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

36
WSW
1/2-1
0.896 mi.
4732 ft.

KAISER STEEL - BYPRODUCTS AREA
9400 CHERRY AVENUE
FONTANA, CA 92335

HIST Cal-Sites S101272831
N/A

Relative:
Lower

Calsite:

Actual:
1119 ft.

Region: CYPRESS
Facility ID: 36330047
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: SB
Branch Name: SO CAL - CYPRESS
File Name: Not reported
State Senate District: 10231995
Status: CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name: CERTIFIED / OPERATION & MAINTENANCE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 33
SIC Name: MANU - PRIMARY METAL INDUSTRIES
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: YAREF
Supervisor Responsible for Site: Not reported
Region Water Control Board: SA
Region Water Control Board Name: SANTA ANA
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 63
State Senate District Code: 32
Facility ID: 36330047
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 02211995
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: COM
Definition of Status: CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05011995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NEGDK
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05021995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09161995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11141995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	O&M
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09261995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09261995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	21200
Liquids Treated (Gals):	9212
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	12.84 ACRE CAP OVER CONTAMINATED BYPRODUCT PLANT SOILS. 370 TONS OF COAL TAR WAS SHIPPED OFF SITE FOR RECYCLING. VAPOR EXTRACTION OF VOLATILE ORGANIC CONTAMINANTS IS CONTINUING WITHIN THE CAPPED AREA.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10231995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	DTSC CERTIFIES THAT IMPLEMENTATION OF ALL REMEDIAL WORK SPECIFIED IN THE "REMEDIAL ACTION PLAN FOR OPERABLE UNIT NO.2, MARCH 1995 (RAP)" HAS BEEN COMPLETED. THE SITE DOES REQUIRE ONGOING O&M AND MONITORING.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	A & C
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12021996
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36330047
Activity:	CHP65
Activity Name:	AMENDED ORDER/AGREEMENT, CHAPTER 6.5 TRANSITION
AWP Code:	ORDER
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01111999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Unknown Type: 0
Facility ID: 36330047
Activity: 5YEAR
Activity Name: FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code: OU2
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07292002
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: COM
Definition of Status: CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 9400 CHERRY AVENUE
Alternate City,St,Zip: FONTANA, CA 92335
Alternate Address: WEST END OF SPECIALTY ROAD
Alternate City,St,Zip: FONTANA, CA 92335
Background Info: The Kaiser Steel Resources facility is located on approximately 880 acres in Fontana. The facility was a former integrated steel production plant that the Kaiser Steel Corporation owned and operated from 1942 to 1983. Following shutdown, portions of the original Kaiser property were sold or otherwise transferred. During this time, the Kaiser Steel Corporation entered bankruptcy proceedings. When the Corporation emerged from bankruptcy, their name changed to Kaiser Steel Resources.
The Department became aware of the potential presence of hazardous waste in 1985, when asbestos and liquids from a benzol production area were released during demolition of onsite structures. The asbestos was removed and is no longer of concern. Also in 1985, an environmental assessment was conducted by J.M. Montgomery at the Kaiser Steel Corp.'s request. As a result of these actions, both the Department and EPA became involved with the site.
In 1988, EPA proposed listing the Kaiser Steel facility on the NPL. In October 1989, EPA decided not to list the site.
During the bankruptcy proceedings, the Department and Kaiser Steel submitted a Consent Order for the investigation and mitigation of the site to the court for review and approval. Subsequent to the court's approval, the Department entered into a consent order in August 1988, with Kaiser Steel Resources. The Lusk Company, a land development company, has negotiated an agreement with Kaiser Steel Resources to fund the initial cleanup. Future work will be

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KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

funded through the sale of the remediated portions of the site.

In August 1988, and January 1989, Preliminary Assessment/Site Inspection Reports (PA/SI) were completed in an effort to identify areas of contamination. Of the 32 areas investigated, 12 were identified as requiring no further action and 20 were recommended for remedial investigation. The remedial investigation at the site was conducted in two phases. Phase I, completed in April 1990, evaluated the 20 potential sites and concluded that three required further investigation and/or remediation. Of these three, two areas, the by-products plant and the east slag pile landfill, were recommended for further remedial investigation, and the third area, the tar pits, was recommended for remediation. Phase II, completed in October 1990, further sampled and analyzed the by-products plant and east slag pile landfill. Results concluded that these areas required remediation. Two smaller areas, the cooling tower sludge pit and the furnace dust and mills scale piles, were also investigated in Phase II. These areas were recommended for minor material removal. The two RI reports concluded that approximately five percent of the site needed remediation. The site has since been split into four separate sites: the Tar Pits area, the Byproducts area, the Chemwest area, and the Landfill area.

The Byproducts Area- Approximately 340 acres in the northern part of Kaiser Steel Resources. This area includes an approximated sixteen-acre portion in which volatile portions of the coking operations were processed to produce other materials of potential value. Numerous underground storage tanks which contained light oils, motor fuels, and various volatile aromatic hydrocarbons were also located in this portion. This area was found to contain elevated soil concentrations of PAHs and volatile aromatic hydrocarbons. Routes of exposure are through dermal contact and inhalation of volatiles. Possible receptors are workers onsite and residents of houses in the vicinity. DTSC applied RAP for the By Products Area and the RAP was implemented. The remedy included a 13 acre CAP, excavation and off-site disposal, and vapor extraction for VOCs.

Comments Date: 01111999
Comments: Transition to Chapter 6.5 - Amendment to the existing Operation
Comments Date: 01111999
Comments: & Maintenance Agreement signed by the RP.
Comments Date: 02211995
Comments: DTSC completed its review of the Feasibility Study Report
Comments Date: 02211995
Comments: for the By-Products Plant area and has approved the Report
Comments Date: 02211995
Comments: as submitted.
Comments Date: 05021995
Comments: DTSC approved the final Remedial Action Plan and CEQA
Comments Date: 05021995
Comments: documents for the Kaiser Steel, By-Products Area site. The
Comments Date: 05021995
Comments: selected remedial alternative includes the installation of a

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Comments Date: 05021995
Comments: low-permeability membrane cap with long term maintenance,
Comments Date: 05021995
Comments: groundwater monitoring, and deed restriction.
Comments Date: 05311986
Comments: This is the date the site was first listed pursuant to
Comments Date: 05311986
Comments: section 25356.
Comments Date: 07292002
Comments: Completion of 5-Year Review report on California Speedway (OU2)
Comments Date: 07292002
Comments: cap.
Comments Date: 09161995
Comments: The Design was completed in phases in order to expedite
Comments Date: 09161995
Comments: remediation. Areas in need of remediation were segregated
Comments Date: 09161995
Comments: and a design document was completed and approved for each
Comments Date: 09161995
Comments: segregated remedial unit. The final design document which
Comments Date: 09161995
Comments: included a compilation of all approved remedial unit
Comments Date: 09161995
Comments: design documents was submitted and approved shortly before
Comments Date: 09161995
Comments: site certification, although the majority of remedial
Comments Date: 09161995
Comments: work had already been completed.
Comments Date: 09261995
Comments: The Final Remedial Action consisted of the design and
Comments Date: 09261995
Comments: construction of a 12.84 acre cap over contaminated By-
Comments Date: 09261995
Comments: Products Plant soils. The cap is possibly the largest
Comments Date: 09261995
Comments: engineered remedial cap ever constructed in California.
Comments Date: 09261995
Comments: Excavation, treatment and removal of hazardous substances
Comments Date: 09261995
Comments: in the cooling tower sludge bed and the blast furnace gas
Comments Date: 09261995
Comments: washer water sludge beds was also performed. Approximately
Comments Date: 09261995
Comments: 9,212 tons of hazardous metals sludge waste was treated by
Comments Date: 09261995
Comments: chemical fixation; 21,200 tons of waste was removed and
Comments Date: 09261995
Comments: disposed of off-site primarily at East Carbon Development
Comments Date: 09261995
Comments: Corporation landfill in Utah; and 370 tons of coal tar
Comments Date: 09261995
Comments: was shipped off-site for recycling. Vapor extraction of
Comments Date: 09261995
Comments: volatile organic contaminants is continuing within the
Comments Date: 09261995
Comments: capped area at the former By-Products Plant. A system of
Comments Date: 09261995

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Database(s)

EDR ID Number
EPA ID Number

KAISER STEEL - BYPRODUCTS AREA (Continued)

S101272831

Comments: extraction wells, including a thermal oxidation unit for
Comments Date: 09261995
Comments: destruction of extracted vapors is in place and operating.
Comments Date: 09261995
Comments: Not reported
Comments Date: 09261995
Comments: DTSC also entered into an O&M Agreement for the "capped
Comments Date: 09261995
Comments: property", the "restricted property", and limited areas in
Comments Date: 09261995
Comments: the remaining operable unit #2 property. Deed restrictions
Comments Date: 09261995
Comments: were also recorded for the "capped property" and
Comments Date: 09261995
Comments: "restricted property".
Comments Date: 10231995
Comments: DTSC certifies that Kaiser Ventures, Inc., (Kaiser) has
Comments Date: 10231995
Comments: completed implementation of all remedial work specified
Comments Date: 10231995
Comments: in the "Remedial Action Plan for Operable Unit No. 2, March
Comments Date: 10231995
Comments: 1995 (RAP)" and as specified in the final remedial action
Comments Date: 10231995
Comments: report. The site does require ongoing O&M and monitoring
Comments Date: 10231995
Comments: efforts.
Comments Date: 11141995
Comments: Deed restrictions were recorded for the "capped property" and
Comments Date: 11141995
Comments: "restricted property".
Comments Date: 12181996
Comments: Excavated, sampled, and removed metals and PAH affected soil from
Comments Date: 12181996
Comments: a former scrap metal recycling facility located on the Kaiser
Comments Date: 12181996
Comments: Steel Site. The Site was closed when background levels for soils
Comments Date: 12181996
Comments: were achieved in accordance with PEA Guidance.
ID Name: CALSTARS CODE
ID Value: 400081
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD008274938
ID Name: BEP DATABASE PCODE
ID Value: P42070
ID Name: CALSITES ID NUMBER
ID Value: 36280140
Alternate Name: KAISER STEEL - BYPRODUCTS AREAKAISER STEEL RESOURCES, INC.
Special Programs Code: R3012
Special Programs Name: RCRA 3012

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 05/16/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/29/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 34

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008

Date Data Arrived at EDR: 07/22/2008

Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834

Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011

Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004

Date Data Arrived at EDR: 09/07/2004

Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710

Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011

Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003

Date Data Arrived at EDR: 05/19/2003

Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786

Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011

Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004

Date Data Arrived at EDR: 10/20/2004

Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433

Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012

Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001

Date Data Arrived at EDR: 02/28/2001

Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769

Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011

Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015

Date Data Arrived at EDR: 02/12/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 112

Source: EPA Region 7

Telephone: 913-551-7003

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015

Date Data Arrived at EDR: 10/23/2015

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 118

Source: EPA Region 8

Telephone: 303-312-6271

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016

Date Data Arrived at EDR: 04/27/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 415-972-3372

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016

Date Data Arrived at EDR: 01/08/2016

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 41

Source: EPA Region 10

Telephone: 206-553-2857

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015

Date Data Arrived at EDR: 10/29/2015

Date Made Active in Reports: 01/04/2016

Number of Days to Update: 67

Source: EPA Region 1

Telephone: 617-918-1313

Last EDR Contact: 07/29/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016

Date Data Arrived at EDR: 04/29/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 35

Source: EPA Region 4

Telephone: 404-562-8677

Last EDR Contact: 07/26/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015

Date Data Arrived at EDR: 02/19/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 105

Source: EPA Region 6

Telephone: 214-665-6597

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016

Date Data Arrived at EDR: 04/27/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 37

Source: EPA, Region 5

Telephone: 312-886-7439

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/14/2016	Source: SWRCB
Date Data Arrived at EDR: 03/16/2016	Telephone: 916-341-5851
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 07/07/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/02/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/04/2016	Telephone: 916-323-3400
Date Made Active in Reports: 06/21/2016	Last EDR Contact: 08/02/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/07/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 14

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 06/01/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/06/2016	Source: DTSC and SWRCB
Date Data Arrived at EDR: 06/07/2016	Telephone: 916-323-3400
Date Made Active in Reports: 07/20/2016	Last EDR Contact: 06/07/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 06/28/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/11/2016	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/27/2016	Telephone: 916-845-8400
Date Made Active in Reports: 06/17/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 51	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/14/2016	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/14/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/10/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 07/15/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016	Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 05/06/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 06/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/10/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 80

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/08/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 54

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/12/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 89

Source: Department of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 49

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 12

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 18

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 04/29/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 45

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/27/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 22

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 55

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List

Cupa Facility list

Date of Government Version: 04/08/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 50

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/04/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 28

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/16/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List Cupa facility list.

Date of Government Version: 04/26/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 50

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 67

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List Cupa facility list

Date of Government Version: 04/26/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 51

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/30/2016
Date Data Arrived at EDR: 04/01/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 38

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 04/20/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 42

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/05/2016

Date Data Arrived at EDR: 04/26/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 36

Source: City of Torrance Fire Department

Telephone: 310-618-2973

Last EDR Contact: 07/07/2016

Next Scheduled EDR Contact: 10/24/2016

Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/02/2016

Date Data Arrived at EDR: 03/07/2016

Date Made Active in Reports: 05/04/2016

Number of Days to Update: 58

Source: Madera County Environmental Health

Telephone: 559-675-7823

Last EDR Contact: 05/23/2016

Next Scheduled EDR Contact: 09/05/2016

Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016

Date Data Arrived at EDR: 04/26/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 36

Source: Public Works Department Waste Management

Telephone: 415-499-6647

Last EDR Contact: 06/30/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/26/2016

Date Data Arrived at EDR: 03/01/2016

Date Made Active in Reports: 05/04/2016

Number of Days to Update: 64

Source: Merced County Environmental Health

Telephone: 209-381-1094

Last EDR Contact: 06/15/2016

Next Scheduled EDR Contact: 09/05/2016

Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 05/25/2016

Date Data Arrived at EDR: 06/01/2016

Date Made Active in Reports: 06/22/2016

Number of Days to Update: 21

Source: Mono County Health Department

Telephone: 760-932-5580

Last EDR Contact: 05/25/2016

Next Scheduled EDR Contact: 09/12/2016

Data Release Frequency: Varies

MONTEREY COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 05/06/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 42

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016

Date Data Arrived at EDR: 05/11/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 21

Source: Health Care Agency

Telephone: 714-834-3446

Last EDR Contact: 05/11/2016

Next Scheduled EDR Contact: 08/22/2016

Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/07/2016

Date Data Arrived at EDR: 03/09/2016

Date Made Active in Reports: 05/04/2016

Number of Days to Update: 56

Source: Placer County Health and Human Services

Telephone: 530-745-2363

Last EDR Contact: 06/15/2016

Next Scheduled EDR Contact: 09/19/2016

Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016

Date Data Arrived at EDR: 04/15/2016

Date Made Active in Reports: 05/09/2016

Number of Days to Update: 24

Source: Department of Environmental Health

Telephone: 951-358-5055

Last EDR Contact: 06/20/2016

Next Scheduled EDR Contact: 10/03/2016

Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/13/2016

Date Data Arrived at EDR: 04/15/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 47

Source: Department of Environmental Health

Telephone: 951-358-5055

Last EDR Contact: 06/20/2016

Next Scheduled EDR Contact: 10/03/2016

Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2016

Date Data Arrived at EDR: 04/06/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 56

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Last EDR Contact: 07/06/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2016

Date Data Arrived at EDR: 04/06/2016

Date Made Active in Reports: 06/01/2016

Number of Days to Update: 56

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Last EDR Contact: 07/05/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/10/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 40

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/24/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 55

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/26/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 05/31/2016
Date Data Arrived at EDR: 06/02/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 19

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/18/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List

Cupa Facility list

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 34

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 16

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa facility list

Date of Government Version: 05/03/2016
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 49

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 54

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 48

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Comprehensive Facility Report Underground storage tank sites located in Yolo county.

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 04/19/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 43

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List CUPA facility listing for Yuba County.

Date of Government Version: 04/29/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 45

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/11/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/06/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED CSU FACILITY, FONTANA
14677 MERRILL AVENUE
FONTANA, CA 92335

TARGET PROPERTY COORDINATES

Latitude (North):	34.091052 - 34° 5' 27.79"
Longitude (West):	117.485046 - 117° 29' 6.17"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	455253.7
UTM Y (Meters):	3772163.2
Elevation:	1158 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619058 FONTANA, CA
Version Date:	2012
Southwest Map:	5620426 GUASTI, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

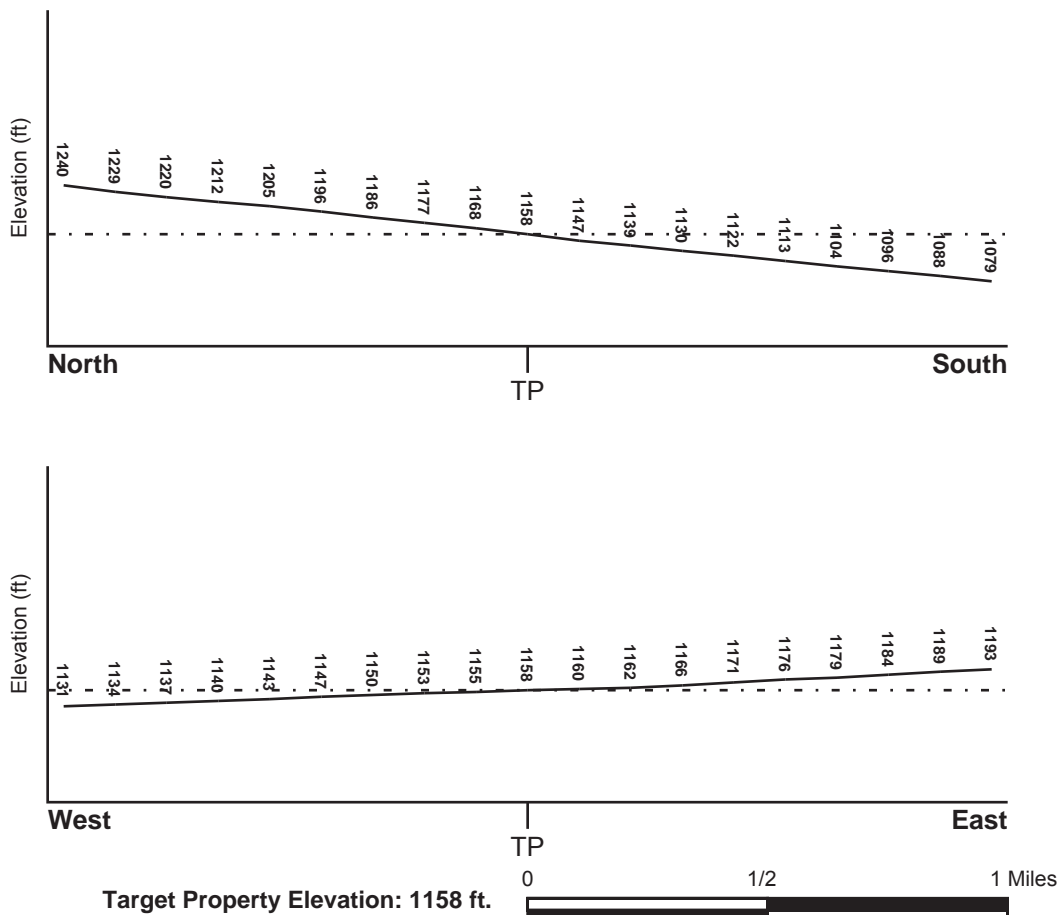
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
SAN BERNARDINO, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06071C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
FONTANA

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
4	1/2 - 1 Mile NNW	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

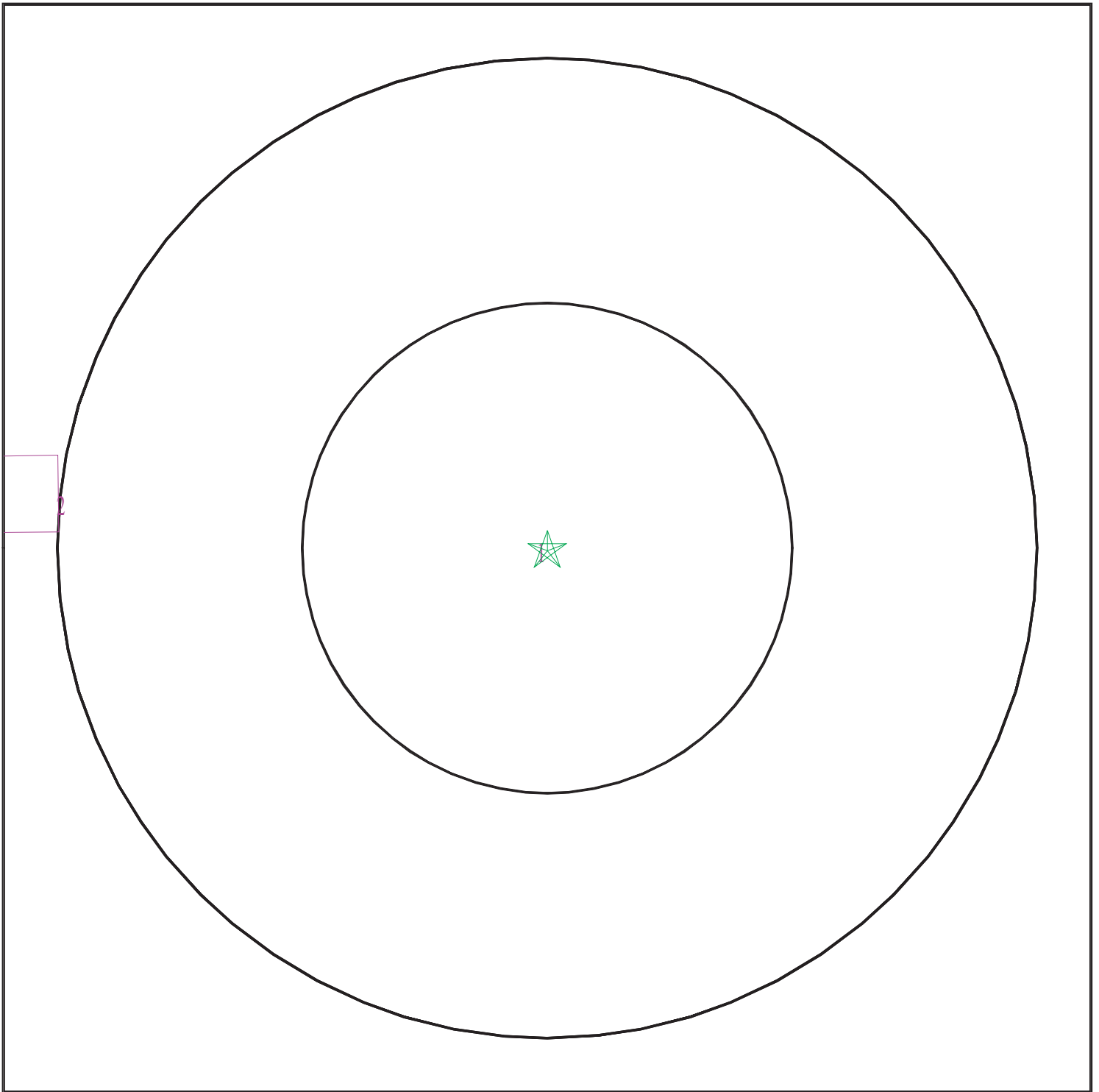
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4692389.2s



- ★ Target Property
- ∨ SSURGO Soil
- ∨ Water



SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana CA 92335
LAT/LONG: 34.091052 / 117.485046

CLIENT: CHJ Consultants
CONTACT: Ann Lauder milk
INQUIRY #: 4692389.2s
DATE: August 04, 2016 4:33 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1



ENCLOSURE D

**VAPOR ENCROACHMENT
SCREEN REPORT**

Proposed CSU Facility, Fontana

14677 Merrill Avenue

Fontana, CA 92335

Inquiry Number: 4692389.9s

August 5, 2016

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

		Summary		
		property	1/10	1/10 - 1/3
STANDARD ENVIRONMENTAL RECORDS	Maximum Search Distance*			
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	0.333	0	0	0
State and tribal - equivalent CERCLIS	0.333	0	0	2
State and tribal landfill / solid waste disposal	0.333	0	0	0
State and tribal leaking storage tank lists	0.333	0	0	2
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.333	0	0	1
State and tribal Brownfields sites	0.333	0	0	0
Other Standard Environmental Records	0.333	0	0	2
HISTORICAL USE RECORDS				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.125	0	2	2
Historical Dry Cleaners	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

PROPOSED CSU FACILITY, FONTANA
14677 MERRILL AVENUE
FONTANA, CA 92335

COORDINATES

Latitude (North):	34.091052 - 34° 5' 27.790833"
Longitude (West):	117.485046 - 117° 29' 6.166992"
Elevation:	1158 ft. above sea level

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone: Available

NWI Wetlands: Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Not hydric

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
MASTER HALCO, INC. San Bern. Co. Permit: Other Standard Environmental Records WDS: Other Standard Environmental Records ENVIROSTOR: State and tribal - equivalent CERCLIS VCP: State and tribal voluntary cleanup sites NPDES: Other Standard Environmental Records	9125 CHERRY AVENUE	1/10 - 1/3 SW	▼ C5	15
MASTER HALCO RCRA-LQG: Federal RCRA generators list UST: State and tribal registered storage tank lists ENVIROSTOR: State and tribal - equivalent CERCLIS	9125 CHERRY AVE.	1/10 - 1/3 SW	▼ C6	23
SOUTHERN PACIFIC-KAISER SIDING LUST: State and tribal leaking storage tank lists	ETIWANDA AVE	1/10 - 1/3 WNW	▲ 7	30
ANGELUS BLOCK CO INC LUST: State and tribal leaking storage tank lists San Bern. Co. Permit: Other Standard Environmental Records HIST CORTESE: Other Standard Environmental Records WDS: Other Standard Environmental Records NPDES: Other Standard Environmental Records	14515 WHITTRAM AVE	1/10 - 1/3 NNW	▲ 8	32

HISTORICAL USE RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
14687 RANCHO VISTA DR EDR Hist Auto: Historical Gas Stations	14687 RANCHO VISTA DR	<1/10 S	▼ A1	10
14643 RANCHO VISTA DR EDR Hist Auto: Historical Gas Stations	14643 RANCHO VISTA DR	<1/10 SSW	▼ A2	12
14589 RANCHO VISTA DR EDR Hist Auto: Historical Gas Stations	14589 RANCHO VISTA DR	1/10 - 1/3 SW	▼ B3	13
14572 RANCHO VISTA DR EDR Hist Auto: Historical Gas Stations	14572 RANCHO VISTA DR	1/10 - 1/3 SW	▼ B4	14

The map displays a residential area with a yellow highlighted region and a green hatched region. The yellow region is bounded by a thick black line. The green hatched region is located in the center and right side of the map. A red line with small circles runs horizontally across the middle of the map. A green rectangle labeled '2' is located on the left side of the map. A green star is located in the center of the map. Red arrows labeled A1, A2, B3, B4, and C point to specific locations. The map includes several streets: Valencia Ave, Depot Rd, Cherry Ave, Granada Ave, Hibiscus Ave, Redwood Ave, Charles St, Pine Ct, Ebony Pl, Raffia Ln, Bamboo Ct, Amayilis Ct, Box Elder Ct, and Isla Ct. A road labeled 'Rancha Vista Dr' is also shown. The map also features a green circle and a green rectangle labeled '2'.

Target Property

Sites at elevations higher than
or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Groundwater Flow Direction

Indeterminate Groundwater Flow at Location

Groundwater Flow Varies at Location

SSURGO Soil

Areas of Concern

CLIENT: CHJ Consultants
CONTACT: Ann Lauder milk
INQUIRY #: 4692389.9s
DATE: August 05, 2016 10:08 am

A

CLIENT: CHJ Consultants
CONTACT: Ann Laudermilk
INQUIRY #: 4692389.9s
DATE: August 05, 2016 10:07 am

AERIAL PHOTOGRAPHY - 4692389.9s



0 300 1/3 Miles



SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana CA 92335
LAT/LONG: 34.091052 / 117.485046

CLIENT: CHJ Consultants
CONTACT: Ann Lauder milk
INQUIRY #: 4692389.9s
DATE: August 05, 2016 10:10 am

MAP FINDINGS

LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP			EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range	(Distance feet / miles)	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
	Relative Elevation	Feet Above Sea Level	
Worksheet:			
Comments: Comments may be added on the online Vapor Encroachment Worksheet.			

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

14687 RANCHO VISTA DR 14687 RANCHO VISTA DR, FONTANA, CA, 92335			1015232315
▼ A1	S <1/10	(348 ft. / 0.066 mi.)	Historical Gas Stations
	11 ft. Lower Elevation	1147 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

EDR Historical Auto Stations: Historical Gas Stations

Name:	TOMS TRUCK REPAIR & PAINTING
Year:	2006
Address:	14687 RANCHO VISTA DR
Name:	TOMS TRUCK REPAIR & PAINTING
Year:	2007
Address:	14687 RANCHO VISTA DR
Name:	TOMS TRUCK REPAIR & PAINTING
Year:	2008
Address:	14687 RANCHO VISTA DR
Name:	TOMS TRUCK REPAIR & PAINTING
Year:	2009
Address:	14687 RANCHO VISTA DR
Name:	TOMS TRUCK REPAIR & PAINTING
Year:	2010

MAP FINDINGS

14687 RANCHO VISTA DR, 14687 RANCHO VISTA DR, FONTANA, CA 92335 (Continued)

Address: 14687 RANCHO VISTA DR

MAP FINDINGS

14643 RANCHO VISTA DR 14643 RANCHO VISTA DR, FONTANA, CA, 92335			1015232055
▼ A2	SSW <1/10	(368 ft. / 0.07 mi.)	Historical Gas Stations
	14 ft. Lower Elevation	1144 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

EDR Historical Auto Stations: Historical Gas Stations

Name:	MIDWEST LUBE
Year:	2005
Address:	14643 RANCHO VISTA DR
Name:	MIDWEST LUBE
Year:	2006
Address:	14643 RANCHO VISTA DR
Name:	MIDWEST LUBE
Year:	2007
Address:	14643 RANCHO VISTA DR
Name:	MIDWEST LUBE
Year:	2008
Address:	14643 RANCHO VISTA DR
Name:	MIDWEST LUBE
Year:	2009
Address:	14643 RANCHO VISTA DR

MAP FINDINGS

14589 RANCHO VISTA DR 14589 RANCHO VISTA DR, FONTANA, CA, 92335			1015231243
▼ B3	SW 1/10 - 1/3	(572 ft. / 0.108 mi.)	Historical Gas Stations
	16 ft. Lower Elevation	1142 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

EDR Historical Auto Stations: Historical Gas Stations

Name:	ACADEMY AUTOMOTIVE INC
Year:	2007
Address:	14589 RANCHO VISTA DR
Name:	ACADEMY AUTOMOTIVE INC
Year:	2008
Address:	14589 RANCHO VISTA DR
Name:	ACADEMY AUTOMOTIVE
Year:	2009
Address:	14589 RANCHO VISTA DR
Name:	ACADEMY AUTOMOTIVE
Year:	2010
Address:	14589 RANCHO VISTA DR

MAP FINDINGS

14572 RANCHO VISTA DR 14572 RANCHO VISTA DR, FONTANA, CA, 92335			1015231162
▼ B4	SW 1/10 - 1/3	(643 ft. / 0.122 mi.)	Historical Gas Stations
	14 ft. Lower Elevation	1144 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

EDR Historical Auto Stations: Historical Gas Stations

Name:	WESTERN MACHINE & REPAIR
Year:	2006
Address:	14572 RANCHO VISTA DR
Name:	WESTERN MACHINE & REPAIR
Year:	2007
Address:	14572 RANCHO VISTA DR

MAP FINDINGS

MASTER HALCO, INC. 9125 CHERRY AVENUE, FONTANA, CA, 92335			1005452065
▼ C5	SW 1/10 - 1/3	(1435 ft. / 0.272 mi.)	State and tribal - equivalent CERCLIS
	24 ft. Lower Elevation	1134 ft. Above Sea Level	State and tribal voluntary cleanup sites Other Standard Environmental Records

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

San Bern. Co. Permit: Other Standard Environmental Records

Region:	SAN BERNARDINO
Facility ID:	FA0004609
Owner:	MASTER HALCO INC
Permit Number:	PT0003283
Permit Category:	LARGE QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2013
Region:	SAN BERNARDINO
Facility ID:	FA0004609
Owner:	MASTER HALCO INC
Permit Number:	PT0013162
Permit Category:	UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status:	INACTIVE
Expiration Date:	09/30/2003
Region:	SAN BERNARDINO
Facility ID:	FA0004609
Owner:	MASTER HALCO INC
Permit Number:	PT0003282
Permit Category:	PBR ANNUAL FEE
Facility Status:	INACTIVE
Expiration Date:	09/30/2012
Region:	SAN BERNARDINO
Facility ID:	FA0004609
Owner:	MASTER HALCO INC
Permit Number:	PT0017478
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	09/30/2012
Region:	SAN BERNARDINO
Facility ID:	FA0004609
Owner:	MASTER HALCO INC
Permit Number:	PT0003284

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

WDS: Other Standard Environmental Records

Facility ID:	Santa Ana River 36I000213
Facility Type:	Not Reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not Reported
Facility Contact:	Not Reported
Agency Name:	MASTER-HALCO INC
Agency Address:	Not Reported
Agency City,St,Zip:	0
Agency Contact:	Not Reported
Agency Telephone:	Not Reported
Agency Type:	Not Reported
SIC Code:	0
SIC Code 2:	Not Reported
Primary Waste Type:	Not Reported
Primary Waste:	Not Reported
Waste Type2:	Not Reported
Waste2:	Not Reported
Primary Waste Type:	Not Reported
Secondary Waste:	Not Reported
Secondary Waste Type:	Not Reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not Reported
POTW:	Not Reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

ENVIROSTOR: State and tribal - equivalent CERCLIS

Facility ID:	36500011
Status:	Refer: RCRA
Status Date:	08/23/2005
Site Code:	Not Reported
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	17.6
NPL:	NO

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not Reported
Supervisor:	Emad Yemut
Division Branch:	Cleanup Cypress
Assembly:	63
Senate:	Not Reported
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	0
Longitude:	0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	110021082004
Alias Type:	EPA (FRS #)
Alias Name:	36500011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/03/2005
Comments:	DTSC entered into A Voluntary Cleanup Agreement (VCA) Docket number HSA-A 04/05-147. The purpose of this Agreement is for DTSC to conduct an evaluation of existing reports and data provided by the Proponent. The focus of the review would be to determine if enough information is available to determine whether or not further action is necessary at the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/15/2006
Comments:	Not Reported

Future Area Name:	Not Reported
Future Sub Area Name:	Not Reported
Future Document Type:	Not Reported
Future Due Date:	Not Reported
Schedule Area Name:	Not Reported
Schedule Sub Area Name:	Not Reported
Schedule Document Type:	Not Reported
Schedule Due Date:	Not Reported

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

Schedule Revised Date: Not Reported

VCP: State and tribal voluntary cleanup sites

Facility ID: 36500011
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 17.6
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not Reported
Supervisor: Emad Yemut
Division Branch: Cleanup Cypress
Site Code: Not Reported
Assembly: 63
Senate: Not Reported
Special Programs Code: Voluntary Cleanup Program
Status: Refer: RCRA
Status Date: 08/23/2005
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 0 / 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110021082004
Alias Type: EPA (FRS #)
Alias Name: 36500011
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not Reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/03/2005
Comments: DTSC entered into A Voluntary Cleanup Agreement (VCA) Docket number HSA-A 04/05-147. The purpose of this Agreement is for DTSC to conduct an evaluation of existing reports and data provided by the Proponent. The focus of the review would be to determine if enough information is available to determine whether or not further action is necessary at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not Reported

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/15/2006
Comments:	Not Reported
Future Area Name:	Not Reported
Future Sub Area Name:	Not Reported
Future Document Type:	Not Reported
Future Due Date:	Not Reported
Schedule Area Name:	Not Reported
Schedule Sub Area Name:	Not Reported
Schedule Document Type:	Not Reported
Schedule Due Date:	Not Reported
Schedule Revised Date:	Not Reported

NPDES: Other Standard Environmental Records

Npdes Number:	Not Reported
Facility Status:	Not Reported
Agency Id:	Not Reported
Region:	8
Regulatory Measure Id:	213076
Order No:	Not Reported
Regulatory Measure Type:	Industrial
Place Id:	Not Reported
WDID:	8 36I000213
Program Type:	Not Reported
Adoption Date Of Regulatory Measure:	Not Reported
Effective Date Of Regulatory Measure:	Not Reported
Expiration Date Of Regulatory Measure:	Not Reported
Termination Date Of Regulatory Measure:	Not Reported
Discharge Name:	Not Reported
Discharge Address:	Not Reported
Discharge City:	Not Reported
Discharge State:	Not Reported
Discharge Zip:	Not Reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	3/2/1992
STATUS CODE NAME:	Active
STATUS DATE:	3/2/1992
PLACE SIZE:	158710
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Oleg Borodulin
FACILITY CONTACT TITLE:	Not Reported
FACILITY CONTACT PHONE:	800-989-4740
FACILITY CONTACT PHONE EXT:	Not Reported
FACILITY CONTACT EMAIL:	oborodulin@fenceonline.com
OPERATOR NAME:	Master Halco, Inc.
OPERATOR ADDRESS:	9125 Cherry Avenue

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

OPERATOR CITY:	Fontana
OPERATOR STATE:	California
OPERATOR ZIP:	92335
OPERATOR CONTACT NAME:	Oleg Borodulin
OPERATOR CONTACT TITLE:	Not Reported
OPERATOR CONTACT PHONE:	800-989-4740
OPERATOR CONTACT PHONE EXT:	Not Reported
OPERATOR CONTACT EMAIL:	oborodulin@fenceonline.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not Reported
DEVELOPER ADDRESS:	Not Reported
DEVELOPER CITY:	Not Reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not Reported
DEVELOPER CONTACT NAME:	Not Reported
DEVELOPER CONTACT TITLE:	Not Reported
CONSTYPE LINEAR UTILITY IND:	Not Reported
EMERGENCY PHONE NO:	909-350-4740
EMERGENCY PHONE EXT:	Not Reported
CONSTYPE ABOVE GROUND IND:	Not Reported
CONSTYPE BELOW GROUND IND:	Not Reported
CONSTYPE CABLE LINE IND:	Not Reported
CONSTYPE COMM LINE IND:	Not Reported
CONSTYPE COMMERTIAL IND:	Not Reported
CONSTYPE ELECTRICAL LINE IND:	Not Reported
CONSTYPE GAS LINE IND:	Not Reported
CONSTYPE INDUSTRIAL IND:	Not Reported
CONSTYPE OTHER DESRIPTION:	Not Reported
CONSTYPE OTHER IND:	Not Reported
CONSTYPE RECONS IND:	Not Reported
CONSTYPE RESIDENTIAL IND:	Not Reported
CONSTYPE TRANSPORT IND:	Not Reported
CONSTYPE UTILITY DESCRIPTION:	Not Reported
CONSTYPE UTILITY IND:	Not Reported
CONSTYPE WATER SEWER IND:	Not Reported
DIR DISCHARGE USWATER IND:	Not Reported
RECEIVING WATER NAME:	Santa Ana River
CERTIFIER NAME:	Not Reported
CERTIFIER TITLE:	Not Reported
CERTIFICATION DATE:	Not Reported
PRIMARY SIC:	3499-Fabricated Metal Products, NEC
SECONDARY SIC:	3471-Electroplating, Plating, Polishing, Anodizing, and Coloring
TERTIARY SIC:	Not Reported
Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	213076
Order No:	97-03-DWQ

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

Regulatory Measure Type:	Enrollee
Place Id:	Not Reported
WDID:	8 36I000213
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not Reported
Effective Date Of Regulatory Measure:	03/02/1992
Expiration Date Of Regulatory Measure:	Not Reported
Termination Date Of Regulatory Measure:	04/01/2015
Discharge Name:	Master Halco Inc
Discharge Address:	9125 Cherry Avenue
Discharge City:	Fontana
Discharge State:	California
Discharge Zip:	92335
RECEIVED DATE:	Not Reported
PROCESSED DATE:	Not Reported
STATUS CODE NAME:	Not Reported
STATUS DATE:	Not Reported
PLACE SIZE:	Not Reported
PLACE SIZE UNIT:	Not Reported
FACILITY CONTACT NAME:	Not Reported
FACILITY CONTACT TITLE:	Not Reported
FACILITY CONTACT PHONE:	Not Reported
FACILITY CONTACT PHONE EXT:	Not Reported
FACILITY CONTACT EMAIL:	Not Reported
OPERATOR NAME:	Not Reported
OPERATOR ADDRESS:	Not Reported
OPERATOR CITY:	Not Reported
OPERATOR STATE:	Not Reported
OPERATOR ZIP:	Not Reported
OPERATOR CONTACT NAME:	Not Reported
OPERATOR CONTACT TITLE:	Not Reported
OPERATOR CONTACT PHONE:	Not Reported
OPERATOR CONTACT PHONE EXT:	Not Reported
OPERATOR CONTACT EMAIL:	Not Reported
OPERATOR TYPE:	Not Reported
DEVELOPER NAME:	Not Reported
DEVELOPER ADDRESS:	Not Reported
DEVELOPER CITY:	Not Reported
DEVELOPER STATE:	Not Reported
DEVELOPER ZIP:	Not Reported
DEVELOPER CONTACT NAME:	Not Reported
DEVELOPER CONTACT TITLE:	Not Reported
CONSTYPE LINEAR UTILITY IND:	Not Reported
EMERGENCY PHONE NO:	Not Reported
EMERGENCY PHONE EXT:	Not Reported
CONSTYPE ABOVE GROUND IND:	Not Reported
CONSTYPE BELOW GROUND IND:	Not Reported

MAP FINDINGS

MASTER HALCO, INC., 9125 CHERRY AVENUE, FONTANA, CA 92335 (Continued)

CONSTYPE CABLE LINE IND:	Not Reported
CONSTYPE COMM LINE IND:	Not Reported
CONSTYPE COMMERTIAL IND:	Not Reported
CONSTYPE ELECTRICAL LINE IND:	Not Reported
CONSTYPE GAS LINE IND:	Not Reported
CONSTYPE INDUSTRIAL IND:	Not Reported
CONSTYPE OTHER DESRIPTION:	Not Reported
CONSTYPE OTHER IND:	Not Reported
CONSTYPE RECONS IND:	Not Reported
CONSTYPE RESIDENTIAL IND:	Not Reported
CONSTYPE TRANSPORT IND:	Not Reported
CONSTYPE UTILITY DESCRIPTION:	Not Reported
CONSTYPE UTILITY IND:	Not Reported
CONSTYPE WATER SEWER IND:	Not Reported
DIR DISCHARGE USWATER IND:	Not Reported
RECEIVING WATER NAME:	Not Reported
CERTIFIER NAME:	Not Reported
CERTIFIER TITLE:	Not Reported
CERTIFICATION DATE:	Not Reported
PRIMARY SIC:	Not Reported
SECONDARY SIC:	Not Reported
TERTIARY SIC:	Not Reported

MAP FINDINGS

MASTER HALCO 9125 CHERRY AVE., FONTANA, CA, 92335			1000401489
▼ C6	SW 1/10 - 1/3	(1451 ft. / 0.275 mi.)	Federal RCRA generators list
	24 ft. Lower Elevation	1134 ft. Above Sea Level	State and tribal - equivalent CERCLIS State and tribal registered storage tank lists

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is downgradient and beyond the critical distance.

Groundwater Flow Gradient:

Downgradient: YES

Hydrogeologically: YES

Topographically: YES

RCRA-LQG: Federal RCRA generators list

Date form received by agency: 04/29/2010

Facility name: MASTER HALCO

Facility address: 9125 CHERRY AVE.
FONTANA, CA 92335

EPA ID: CAD982012965

Mailing address: CHERRY AVE.
FONTANA, CA 92335

Contact: OLEG BORODULIN

Contact address: CHERRY AVE.
FONTANA, CA 92335

Contact country: US

Contact telephone: (909) 350-4740

Contact email: OBOBODULIN@FENCEONLINE.COM

EPA Region: 09

Land type: Private

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: MASTER HALCO

Owner/operator address: 4000 METROPOLITAN DRIVE #400
ORANGE, CA 92868

Owner/operator country: US

Owner/operator telephone: Not Reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/01/1987

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

Owner/Op end date:	Not Reported
Owner/operator name:	MASTER HALCO, INC
Owner/operator address:	ONE CITY BLVD, SUITE 900 ORANGE, CA 92868
Owner/operator country:	US
Owner/operator telephone:	(714) 385-0091
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1987
Owner/Op end date:	Not Reported
Owner/operator name:	MASTER HALCO INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not Reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not Reported
Owner/Op end date:	Not Reported
Owner/operator name:	MASTER HALCO
Owner/operator address:	Not Reported
Owner/operator country:	US
Owner/operator telephone:	Not Reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1987
Owner/Op end date:	Not Reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not Reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not Reported
Owner/Op end date:	Not Reported
Owner/operator name:	MASTER HALCO INC
Owner/operator address:	Not Reported
Owner/operator country:	Not Reported
Owner/operator telephone:	Not Reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1987
Owner/Op end date:	Not Reported

Handler Activities Summary:

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	132
. Waste name:	132
. Waste code:	134
. Waste name:	134
. Waste code:	135
. Waste name:	135
. Waste code:	171
. Waste name:	171
. Waste code:	181
. Waste name:	181
. Waste code:	D002
. Waste name:	CORROSIVE WASTE
. Waste code:	D007
. Waste name:	CHROMIUM

Historical Generators:

Date form received by agency:	02/26/2008
Site name:	MASTER HALCO
Classification:	Large Quantity Generator
. Waste code:	D002
. Waste name:	CORROSIVE WASTE
. Waste code:	D007
. Waste name:	CHROMIUM
Date form received by agency:	09/01/1996
Site name:	MASTER HALCO INC
Classification:	Large Quantity Generator
Date form received by agency:	09/01/1996
Site name:	MASTER HALCO INC
Classification:	Small Quantity Generator

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

Date form received by agency: 07/13/1987
 Site name: MASTER HALCO INC
 Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not Reported
 Area of violation: Generators - General
 Date violation determined: 03/20/2008
 Date achieved compliance: Not Reported
 Violation lead agency: State
 Enforcement action: Not Reported
 Enforcement action date: Not Reported
 Enf. disposition status: Not Reported
 Enf. disp. status date: Not Reported
 Enforcement lead agency: Not Reported
 Proposed penalty amount: Not Reported
 Final penalty amount: Not Reported
 Paid penalty amount: Not Reported

Evaluation Action Summary:

Evaluation date: 03/20/2008
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Area of violation: Generators - General
 Date achieved compliance: Not Reported
 Evaluation lead agency: State

UST: State and tribal registered storage tank lists

Facility ID: 87013223
 Permitting Agency: SAN BERNARDINO COUNTY
 Latitude: 34.08765
 Longitude: -117.48872

ENVIROSTOR: State and tribal - equivalent CERCLIS

Facility ID: 71002958
 Status: Active
 Status Date: 11/13/2014
 Site Code: 550018
 Site Type: Tiered Permit
 Site Type Detailed: Tiered Permit
 Acres: 5
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Poonam Acharya
 Supervisor: Emad Yemut
 Division Branch: Southern California Schools & Brownfields Outreach
 Assembly: 52
 Senate: 20

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

Special Program:	Not Reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.08778
Longitude:	-117.4887
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - METAL, METAL FINISHING
Potential COC:	Zinc
Confirmed COC:	Zinc
Potential Description:	SOIL
Alias Name:	CAD982012965
Alias Type:	EPA Identification Number
Alias Name:	110002776210
Alias Type:	EPA (FRS #)
Alias Name:	540091
Alias Type:	Project Code (Site Code)
Alias Name:	550018
Alias Type:	Project Code (Site Code)
Alias Name:	71002958
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Consent Agreement
Completed Date:	12/31/2006
Comments:	Not Reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Remedy Selection and Statement of Basis
Completed Date:	06/30/2007
Comments:	Not Reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	* CEQA
Completed Date:	03/31/2007
Comments:	Not Reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Consent Agreement
Completed Date:	10/29/2014
Comments:	Letter agreement was signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Consent Agreement
Completed Date:	04/08/2015
Comments:	Agreement fully executed.

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/29/2015
Comments:	FY 1516 Cost Estimate Letter.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Phase 1
Completed Date:	06/30/2006
Comments:	Not Reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Phase 1
Completed Date:	12/04/2014
Comments:	Comment letter was sent.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Phase 1
Completed Date:	12/04/2014
Comments:	Not Reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Phase 1
Completed Date:	12/04/2014
Comments:	Comments were sent out.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Phase 1
Completed Date:	12/04/2014
Comments:	The comment letter was sent.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Corrective Measures Study Workplan
Completed Date:	06/15/2015
Comments:	work plan was approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/20/2016
Comments:	FI Report was approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not Reported
Completed Document Type:	Fieldwork
Completed Date:	12/04/2015
Comments:	fieldwork was implemented.

MAP FINDINGS

MASTER HALCO, 9125 CHERRY AVE., FONTANA, CA 92335 (Continued)

Future Area Name:	Not Reported
Future Sub Area Name:	Not Reported
Future Document Type:	Not Reported
Future Due Date:	Not Reported
Schedule Area Name:	Not Reported
Schedule Sub Area Name:	Not Reported
Schedule Document Type:	Not Reported
Schedule Due Date:	Not Reported
Schedule Revised Date:	Not Reported

MAP FINDINGS

SOUTHERN PACIFIC-KAISER SIDING ETIWANDA AVE, FONTANA, CA, 92335			S102437881
▲ 7	WNW 1/10 - 1/3	(1473 ft. / 0.279 mi.)	State and tribal leaking storage tank lists
	7 ft. Higher Elevation	1165 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is crossgradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

Groundwater Flow Gradient:

Crossgradient: YES

Hydrogeologically: YES

Topographically: YES

LUST REG 8: State and tribal leaking storage tank lists

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083600996T
Local Case Num:	87092
Case Type:	Soil only
Substance:	Heater Fuel
Qty Leaked:	Not Reported
Abate Method:	Not Reported
Cross Street:	SLOVER
Enf Type:	CLOS
Funding:	Not Reported
How Discovered:	Tank Closure
How Stopped:	Not Reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100107
How Stopped Date:	3/25/1988
Enter Date:	8/24/1988
Date Confirmation of Leak Began:	Not Reported
Date Preliminary Assessment Began:	Not Reported
Discover Date:	3/25/1988
Enforcement Date:	Not Reported
Close Date:	2/1/1989
Date Prelim Assessment Workplan Submitted:	Not Reported
Date Pollution Characterization Began:	8/25/1988
Date Remediation Plan Submitted:	Not Reported
Date Remedial Action Underway:	Not Reported

MAP FINDINGS

SOUTHERN PACIFIC-KAISER SIDING, ETIWANDA AVE, FONTANA, CA 92335 (Continued)

Date Post Remedial Action Monitoring:	Not Reported
Enter Date:	8/24/1988
GW Qualifies:	Not Reported
Soil Qualifies:	Not Reported
Operator:	Not Reported
Facility Contact:	Not Reported
Interim:	Not Reported
Oversite Program:	LUST
Latitude:	34.0894593
Longitude:	-117.4487517
MTBE Date:	Not Reported
Max MTBE GW:	Not Reported
MTBE Concentration:	0
Max MTBE Soil:	Not Reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	TME
Staff Initials:	Not Reported
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not Reported
Priority:	Not Reported
Cleanup Fund Id:	Not Reported
Work Suspended:	Not Reported
Summary:	Not Reported

MAP FINDINGS

ANGELUS BLOCK CO INC 14515 WHITTRAM AVE, FONTANA, CA, 92335			S100929610
▲ 8	NNW 1/10 - 1/3	(1706 ft. / 0.323 mi.)	State and tribal leaking storage tank lists Other Standard Environmental Records
	21 ft. Higher Elevation	1179 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is crossgradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

Groundwater Flow Gradient:

Crossgradient: YES

Hydrogeologically: YES

Topographically: YES

LUST: State and tribal leaking storage tank lists

Region: STATE
Global Id: T0607100304
Latitude: 34.094944
Longitude: -117.487162
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/28/1994
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: Not Reported
Local Agency: Not Reported
RB Case Number: 083602362T
LOC Case Number: 93062
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not Reported
Click here to access the California GeoTracker records for this facility: http://www.web.edrnet.com/ordering/switchboard/redirect.aspx?s=GRR_CA_LUST_ST&global_id=T0607100304

Contact:

Global Id: T0607100304
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Status History:

Global Id: T0607100304

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

Status:	Completed - Case Closed
Status Date:	04/28/1994
Global Id:	T0607100304
Status:	Open - Case Begin Date
Status Date:	10/21/1993
Global Id:	T0607100304
Status:	Open - Site Assessment
Status Date:	10/21/1993
Global Id:	T0607100304
Status:	Open - Site Assessment
Status Date:	11/08/1993

Regulatory Activities:

Global Id:	T0607100304
Action Type:	Other
Date:	10/21/1993
Action:	Leak Discovery
Global Id:	T0607100304
Action Type:	Other
Date:	11/16/1993
Action:	Leak Reported
Global Id:	T0607100304
Action Type:	REMEDIATION
Date:	04/25/2006
Action:	Not Reported
Global Id:	T0607100304
Action Type:	ENFORCEMENT
Date:	04/28/1994
Action:	Closure/No Further Action Letter
Global Id:	T0607100304
Action Type:	Other
Date:	10/21/1993
Action:	Leak Stopped
Global Id:	T0607100304
Action Type:	REMEDIATION
Date:	10/21/1993
Action:	Excavation

LUST REG 8:

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602362T

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

Local Case Num:	93062
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not Reported
Abate Method:	Not Reported
Cross Street:	REDWOOD
Enf Type:	CLOS
Funding:	Federal Funds
How Discovered:	Tank Closure
How Stopped:	Not Reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0607100304
How Stopped Date:	10/21/1993
Enter Date:	1/7/1994
Date Confirmation of Leak Began:	10/21/1993
Date Preliminary Assessment Began:	Not Reported
Discover Date:	10/21/1993
Enforcement Date:	Not Reported
Close Date:	4/28/1994
Date Prelim Assessment Workplan Submitted:	11/8/1993
Date Pollution Characterization Began:	Not Reported
Date Remediation Plan Submitted:	Not Reported
Date Remedial Action Underway:	Not Reported
Date Post Remedial Action Monitoring:	Not Reported
Enter Date:	1/7/1994
GW Qualifies:	Not Reported
Soil Qualifies:	Not Reported
Operator:	Not Reported
Facility Contact:	Not Reported
Interim:	Not Reported
Oversite Program:	LUST
Latitude:	34.0955779
Longitude:	-117.4883971
MTBE Date:	Not Reported
Max MTBE GW:	Not Reported
MTBE Concentration:	1
Max MTBE Soil:	Not Reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	CAB
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not Reported
Priority:	Not Reported

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

Cleanup Fund Id:	Not Reported
Work Suspended:	Not Reported
Summary:	Not Reported

San Bern. Co. Permit: Other Standard Environmental Records

Region:	SAN BERNARDINO
Facility ID:	FA0000958
Owner:	ANTONINI, EDWARD
Permit Number:	PT0002225
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2017

Region:	SAN BERNARDINO
Facility ID:	FA0000958
Owner:	ANTONINI, EDWARD
Permit Number:	PT0002226
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2017

Region:	SAN BERNARDINO
Facility ID:	FA0000958
Owner:	ANTONINI, EDWARD
Permit Number:	PT0022589
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	05/31/2014

Region:	SAN BERNARDINO
Facility ID:	FA0000958
Owner:	ANTONINI, EDWARD
Permit Number:	PT0022588
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	05/31/2017

HIST CORTESE: Other Standard Environmental Records

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602362T

WDS: Other Standard Environmental Records

Facility ID:	Santa Ana River 36I004551
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	8187678576
Facility Contact:	DAVID DUMOND
Agency Name:	ANGELUS BLOCK CO INC - ORANGE
Agency Address:	1705 N MAIN ST
Agency City,St,Zip:	ORANGE 92865
Agency Contact:	DAVID DUMOND
Agency Telephone:	8187678576
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not Reported
Primary Waste Type:	Not Reported
Primary Waste:	Not Reported
Waste Type2:	Not Reported
Waste2:	Not Reported
Primary Waste Type:	Not Reported
Secondary Waste:	Not Reported
Secondary Waste Type:	Not Reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not Reported
POTW:	Not Reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

NPDES: Other Standard Environmental Records

Npdes Number:	Not Reported
Facility Status:	Not Reported
Agency Id:	Not Reported
Region:	8
Regulatory Measure Id:	213188
Order No:	Not Reported
Regulatory Measure Type:	Industrial
Place Id:	Not Reported
WDID:	8 36I004551
Program Type:	Not Reported
Adoption Date Of Regulatory Measure:	Not Reported
Effective Date Of Regulatory Measure:	Not Reported
Expiration Date Of Regulatory Measure:	Not Reported
Termination Date Of Regulatory Measure:	Not Reported
Discharge Name:	Not Reported

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

Discharge Address:	Not Reported
Discharge City:	Not Reported
Discharge State:	Not Reported
Discharge Zip:	Not Reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/8/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/8/1992
PLACE SIZE:	9
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	David Dumond
FACILITY CONTACT TITLE:	Not Reported
FACILITY CONTACT PHONE:	Not Reported
FACILITY CONTACT PHONE EXT:	Not Reported
FACILITY CONTACT EMAIL:	davcdumond@angelusblock.com
OPERATOR NAME:	Angelus Block Co Inc
OPERATOR ADDRESS:	1705 N Main St
OPERATOR CITY:	Orange
OPERATOR STATE:	California
OPERATOR ZIP:	92865
OPERATOR CONTACT NAME:	David Dumond
OPERATOR CONTACT TITLE:	Not Reported
OPERATOR CONTACT PHONE:	714-637-8594
OPERATOR CONTACT PHONE EXT:	Not Reported
OPERATOR CONTACT EMAIL:	davedumond@angelusblock.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not Reported
DEVELOPER ADDRESS:	Not Reported
DEVELOPER CITY:	Not Reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not Reported
DEVELOPER CONTACT NAME:	Not Reported
DEVELOPER CONTACT TITLE:	Not Reported
CONSTYPE LINEAR UTILITY IND:	Not Reported
EMERGENCY PHONE NO:	714-637-8594
EMERGENCY PHONE EXT:	Not Reported
CONSTYPE ABOVE GROUND IND:	Not Reported
CONSTYPE BELOW GROUND IND:	Not Reported
CONSTYPE CABLE LINE IND:	Not Reported
CONSTYPE COMM LINE IND:	Not Reported
CONSTYPE COMMERTIAL IND:	Not Reported
CONSTYPE ELECTRICAL LINE IND:	Not Reported
CONSTYPE GAS LINE IND:	Not Reported
CONSTYPE INDUSTRIAL IND:	Not Reported
CONSTYPE OTHER DESRIPTION:	Not Reported
CONSTYPE OTHER IND:	Not Reported
CONSTYPE RECONS IND:	Not Reported
CONSTYPE RESIDENTIAL IND:	Not Reported
CONSTYPE TRANSPORT IND:	Not Reported

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

CONSTYPE UTILITY DESCRIPTION:	Not Reported
CONSTYPE UTILITY IND:	Not Reported
CONSTYPE WATER SEWER IND:	Not Reported
DIR DISCHARGE USWATER IND:	Not Reported
RECEIVING WATER NAME:	Lytle Creek
CERTIFIER NAME:	Not Reported
CERTIFIER TITLE:	Not Reported
CERTIFICATION DATE:	Not Reported
PRIMARY SIC:	3271-Concrete Block and Brick
SECONDARY SIC:	Not Reported
TERTIARY SIC:	Not Reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	8
Regulatory Measure Id:	213188
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Reported
WDID:	8 36I004551
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not Reported
Effective Date Of Regulatory Measure:	04/08/1992
Expiration Date Of Regulatory Measure:	Not Reported
Termination Date Of Regulatory Measure:	Not Reported
Discharge Name:	Angelus Block Co Inc
Discharge Address:	11374 Tuxford St
Discharge City:	Sun Valley
Discharge State:	California
Discharge Zip:	91352
RECEIVED DATE:	Not Reported
PROCESSED DATE:	Not Reported
STATUS CODE NAME:	Not Reported
STATUS DATE:	Not Reported
PLACE SIZE:	Not Reported
PLACE SIZE UNIT:	Not Reported
FACILITY CONTACT NAME:	Not Reported
FACILITY CONTACT TITLE:	Not Reported
FACILITY CONTACT PHONE:	Not Reported
FACILITY CONTACT PHONE EXT:	Not Reported
FACILITY CONTACT EMAIL:	Not Reported
OPERATOR NAME:	Not Reported
OPERATOR ADDRESS:	Not Reported
OPERATOR CITY:	Not Reported
OPERATOR STATE:	Not Reported
OPERATOR ZIP:	Not Reported
OPERATOR CONTACT NAME:	Not Reported

MAP FINDINGS

ANGELUS BLOCK CO INC, 14515 WHITTRAM AVE, FONTANA, CA 92335 (Continued)

OPERATOR CONTACT TITLE:	Not Reported
OPERATOR CONTACT PHONE:	Not Reported
OPERATOR CONTACT PHONE EXT:	Not Reported
OPERATOR CONTACT EMAIL:	Not Reported
OPERATOR TYPE:	Not Reported
DEVELOPER NAME:	Not Reported
DEVELOPER ADDRESS:	Not Reported
DEVELOPER CITY:	Not Reported
DEVELOPER STATE:	Not Reported
DEVELOPER ZIP:	Not Reported
DEVELOPER CONTACT NAME:	Not Reported
DEVELOPER CONTACT TITLE:	Not Reported
CONSTYPE LINEAR UTILITY IND:	Not Reported
EMERGENCY PHONE NO:	Not Reported
EMERGENCY PHONE EXT:	Not Reported
CONSTYPE ABOVE GROUND IND:	Not Reported
CONSTYPE BELOW GROUND IND:	Not Reported
CONSTYPE CABLE LINE IND:	Not Reported
CONSTYPE COMM LINE IND:	Not Reported
CONSTYPE COMMERTIAL IND:	Not Reported
CONSTYPE ELECTRICAL LINE IND:	Not Reported
CONSTYPE GAS LINE IND:	Not Reported
CONSTYPE INDUSTRIAL IND:	Not Reported
CONSTYPE OTHER DESRIPTION:	Not Reported
CONSTYPE OTHER IND:	Not Reported
CONSTYPE RECONS IND:	Not Reported
CONSTYPE RESIDENTIAL IND:	Not Reported
CONSTYPE TRANSPORT IND:	Not Reported
CONSTYPE UTILITY DESCRIPTION:	Not Reported
CONSTYPE UTILITY IND:	Not Reported
CONSTYPE WATER SEWER IND:	Not Reported
DIR DISCHARGE USWATER IND:	Not Reported
RECEIVING WATER NAME:	Not Reported
CERTIFIER NAME:	Not Reported
CERTIFIER TITLE:	Not Reported
CERTIFICATION DATE:	Not Reported
PRIMARY SIC:	Not Reported
SECONDARY SIC:	Not Reported
TERTIARY SIC:	Not Reported



ENCLOSURE E

**COUNTY HMD RECORDS REQUEST
RESPONSE LETTER**

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

MARK A. HARTWIG
Fire Chief/Fire Warden

August 15, 2016

16080402 Fontana Nrl CHJ Consultants

CHJ CONSULTANTS
1355 EAST COOLEY DRIVE
COLTON, CA 92324

ATTENTION: ANN LAUDERMILK

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS
14677 MERRILL AVENUE, FONTANA, CALIFORNIA

This is to confirm that the OFM Hazardous Materials Division (HMD) has searched its records for any file(s) pertaining to the subject property, as described in your request, and finds that no records exist for the above site description(s).

Records maintained by OFM-HMD date back to early 1980's. Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
ROBERT A. LOVINGOODFirst District
JANICE RUTHERFORD.....Second District
JOSIE GONZALES Fifth District
JAMES RAMOS Third District
GARY C. OVITT.....Fourth District



ENCLOSURE F

AERIAL PHOTOGRAPHS REVIEWED



Proposed CSU Facility, Fontana

14677 Merrill Avenue

Fontana, CA 92335

Inquiry Number: 4692389.12

August 04, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/04/16

Site Name:

Proposed CSU Facility, Fontan
14677 Merrill Avenue
Fontana, CA 92335
EDR Inquiry # 4692389.12

Client Name:

CHJ Consultants
1355 East Cooley Drive
Colton, CA 92324
Contact: Ann Laudermilk



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1975	1"=500'	Flight Date: December 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: January 31, 1953	USDA
1949	1"=500'	Flight Date: May 21, 1949	USDA
1938	1"=500'	Flight Date: May 27, 1938	USDA

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INQUIRY #: 4692389.12

YEAR: 2012

— = 500'





INQUIRY #: 4692389.12

YEAR: 2010

— = 500'





INQUIRY #: 4692389.12

YEAR: 2009

— = 500'





INQUIRY #: 4692389.12

YEAR: 2006

— = 500'





INQUIRY #: 4692389.12

YEAR: 2005

— = 500'





INQUIRY #: 4692389.12

YEAR: 1994

— = 500'





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YEAR: 1990

— = 500'





INQUIRY #: 4692389.12

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— = 500'



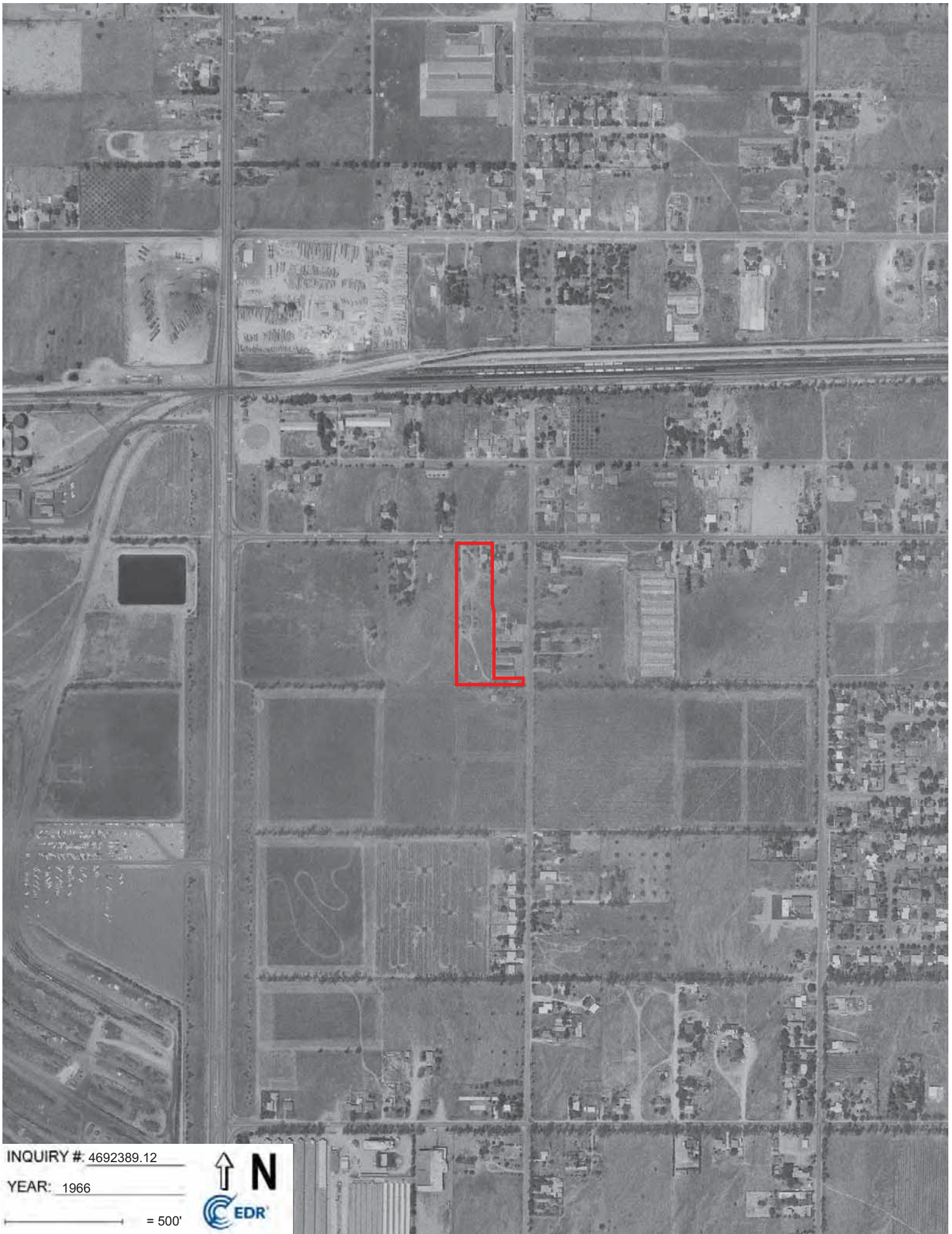


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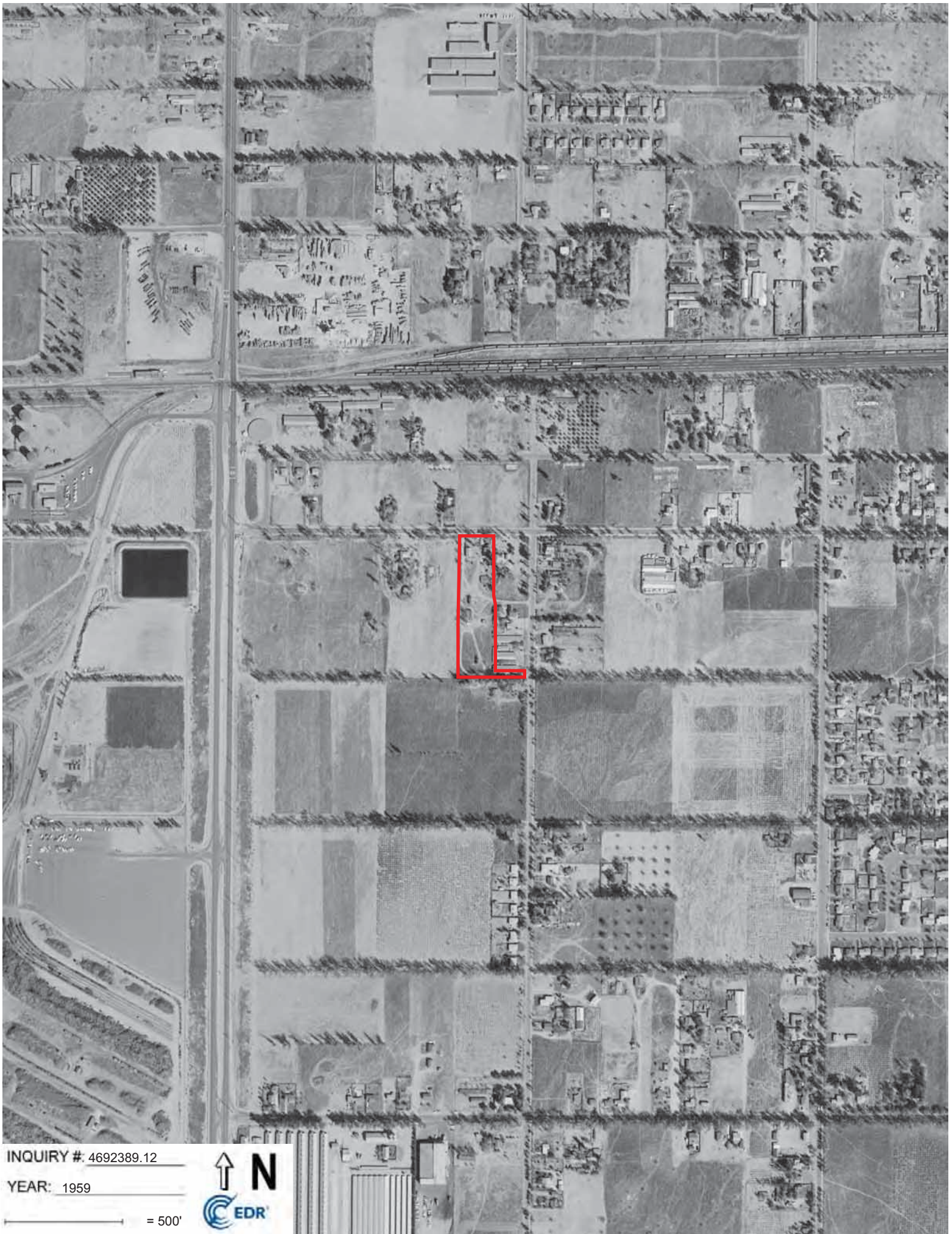


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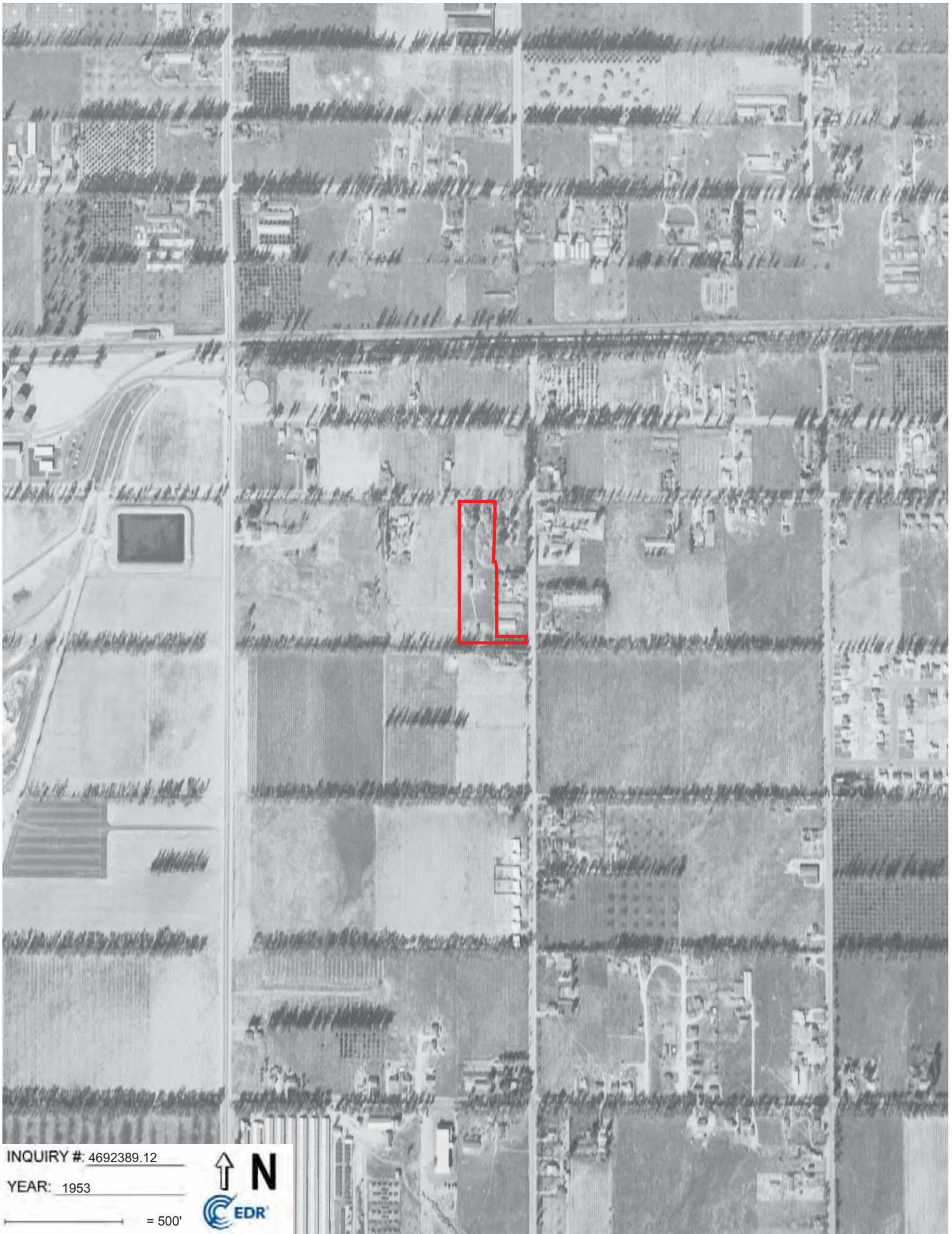


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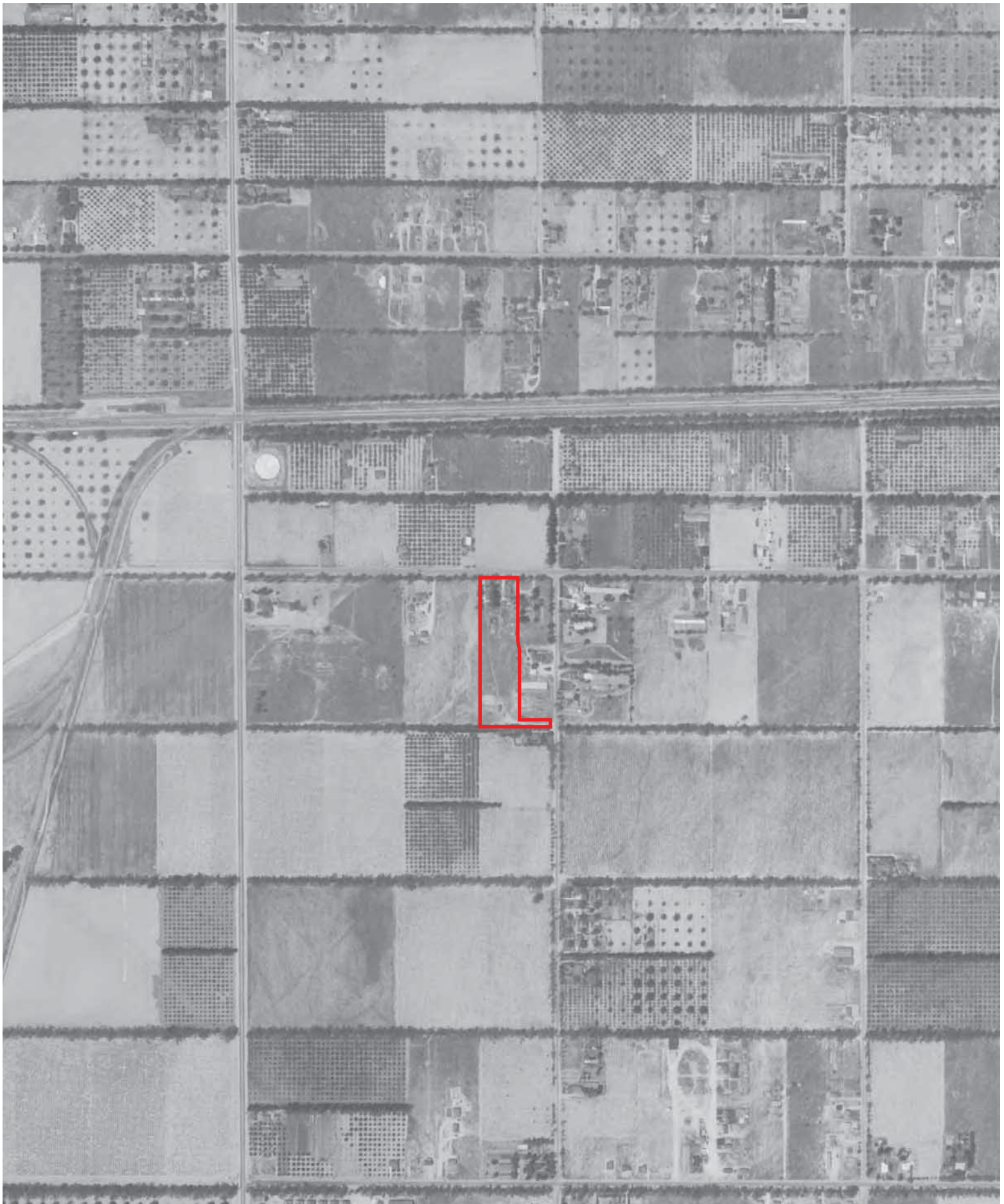


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YEAR: 1953

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INQUIRY #: 4692389.12

YEAR: 1949

— = 500'





INQUIRY #: 4692389.12

YEAR: 1938

— = 500'





ENCLOSURE G

TOPOGRAPHIC MAPS REVIEWED



Proposed CSU Facility, Fontana

14677 Merrill Avenue

Fontana, CA 92335

Inquiry Number: 4692389.4

August 04, 2016

EDR Historical Topo Map Report

with QuadMatch™



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EDR Historical Topo Map Report

08/04/16

Site Name:

Proposed CSU Facility, Fontan
14677 Merrill Avenue
Fontana, CA 92335
EDR Inquiry # 4692389.4

Client Name:

CHJ Consultants
1355 East Cooley Drive
Colton, CA 92324
Contact: Ann Laudermilk



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Search Results:**Coordinates:**

P.O.#	NA	Latitude:	34.091052 34° 5' 28" North
Project:	16381-9	Longitude:	-117.485046 -117° 29' 6" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	455254.70
		UTM Y Meters:	3772357.88
		Elevation:	1157.64' above sea level

Maps Provided:

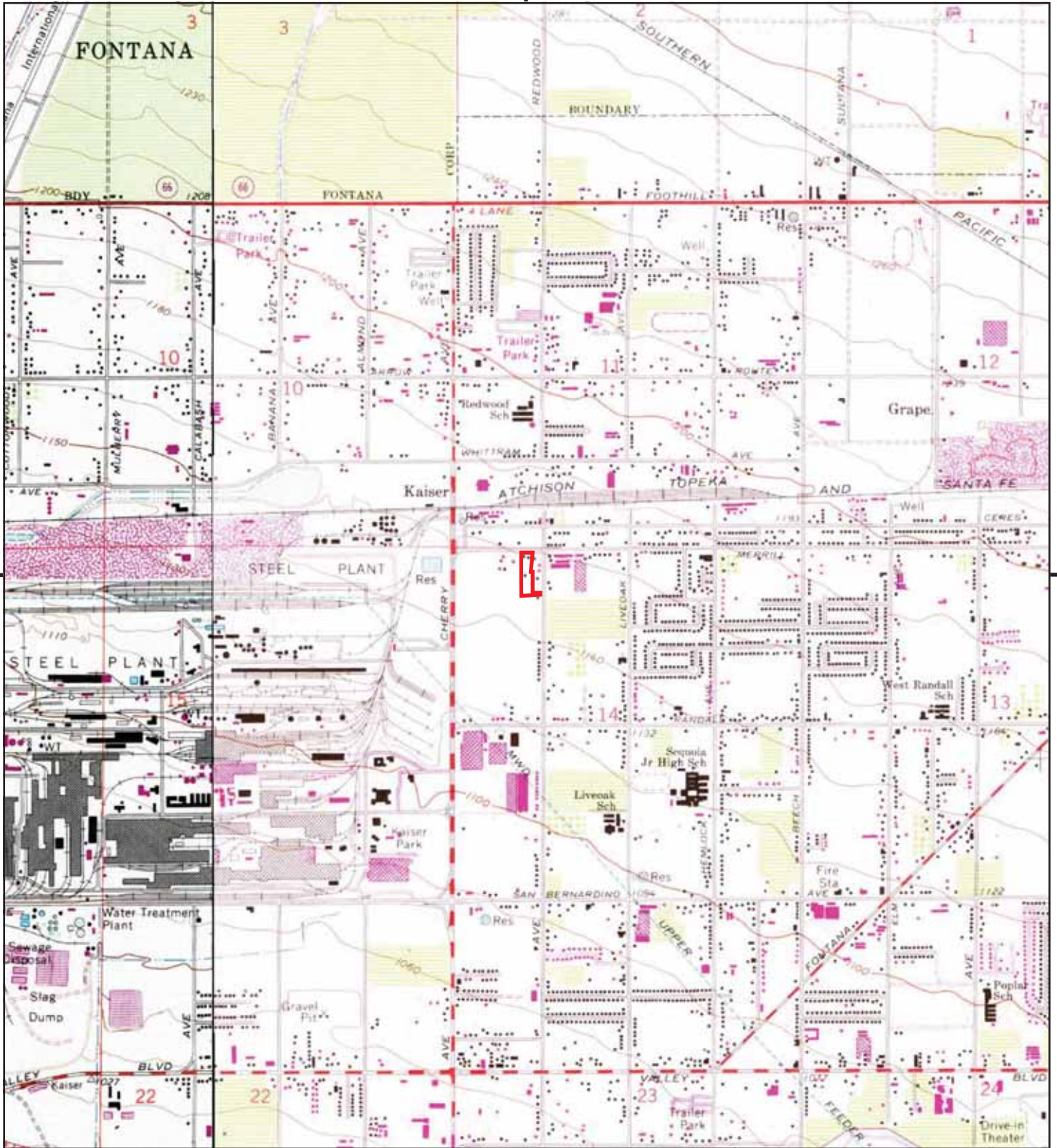
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1980, 1981	1896, 1897
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1966, 1967	
1954	
1953	
1943	
1901	

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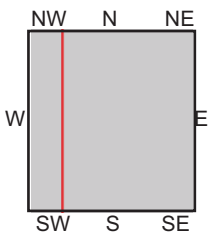
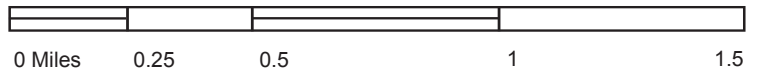
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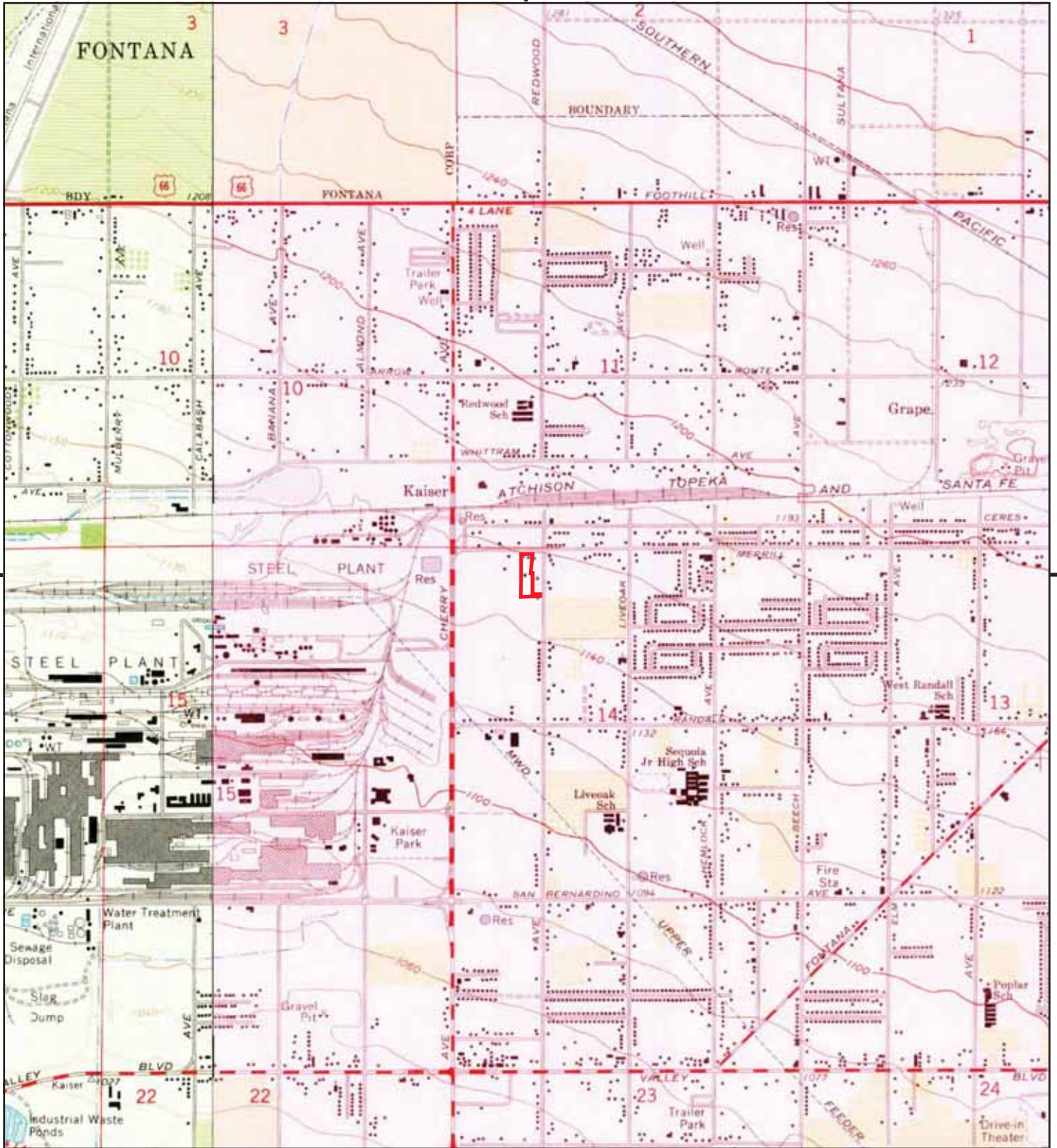


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SW, Guasti, 1981, 7.5-minute

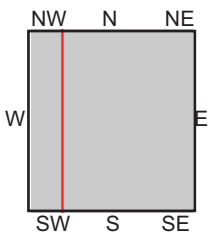
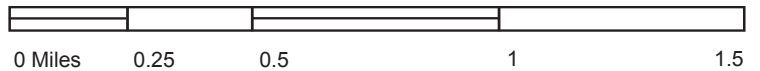
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ADDRESS: 14677 Merrill Avenue
Fontana, CA 92335
CLIENT: CHJ Consultants







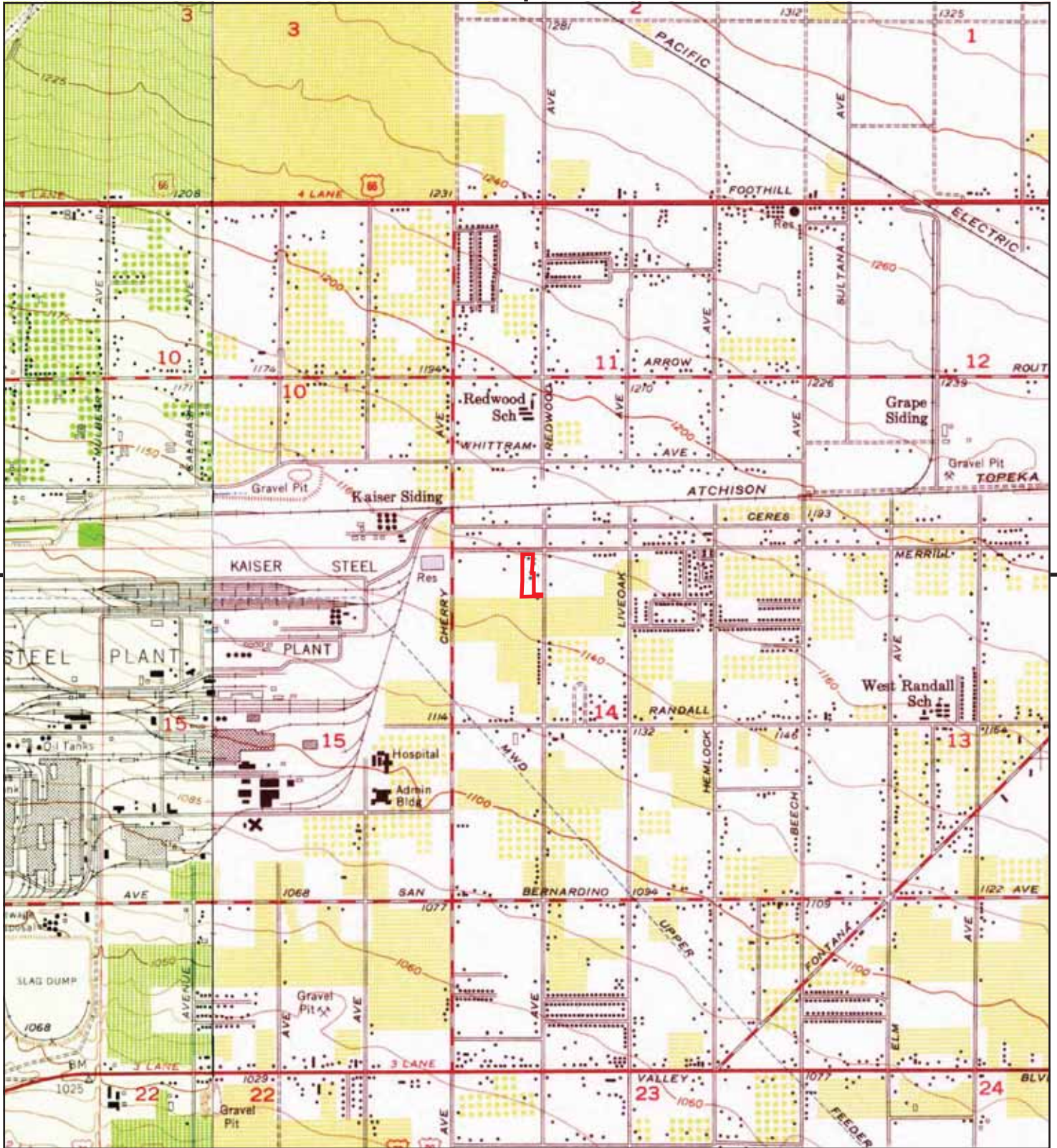
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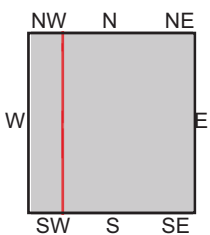
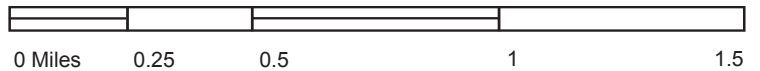
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SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana, CA 92335
CLIENT: CHJ Consultants





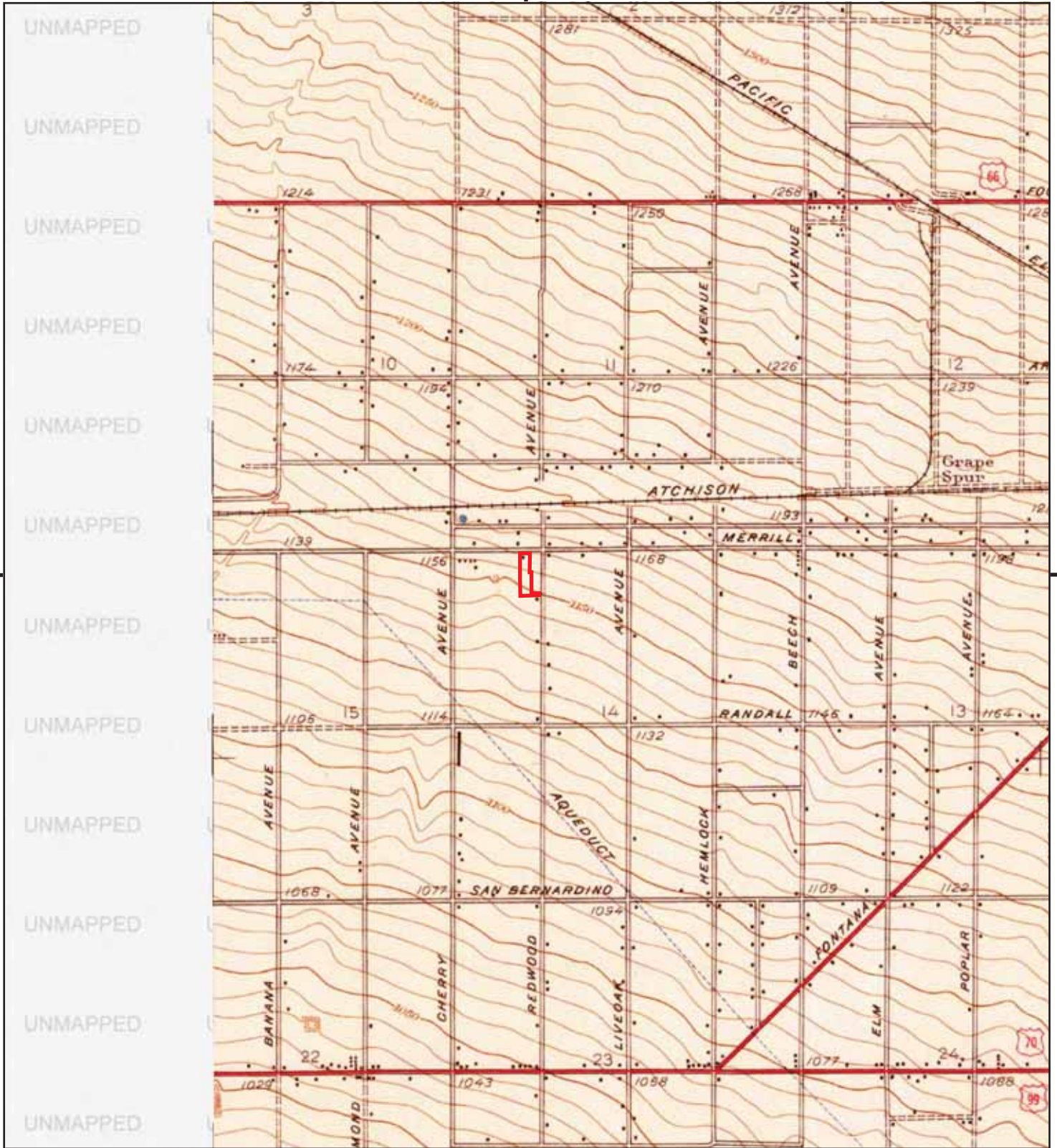
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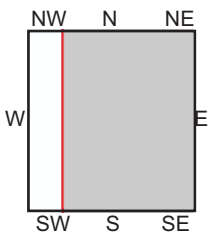
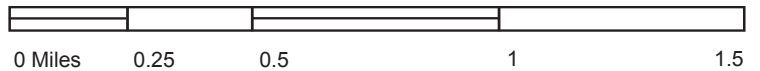
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SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana, CA 92335
CLIENT: CHJ Consultants





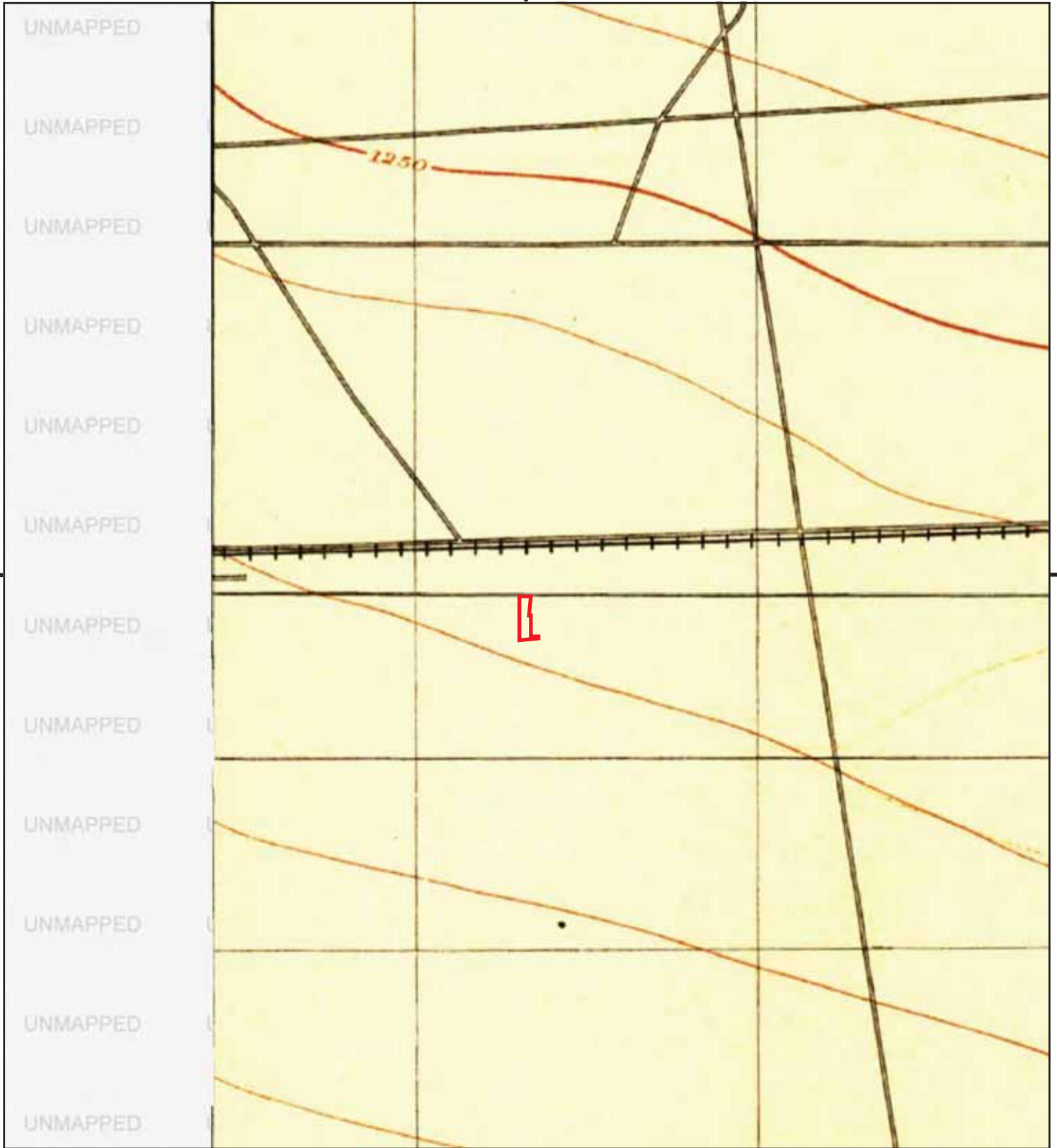
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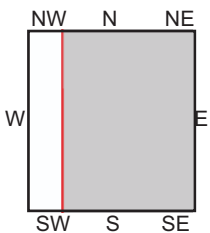
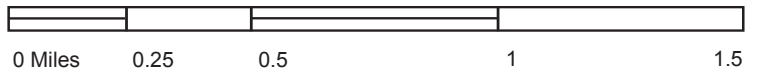
TP, Fontana, 1943, 7.5-minute

SITE NAME: Proposed CSU Facility, Fontana
 ADDRESS: 14677 Merrill Avenue
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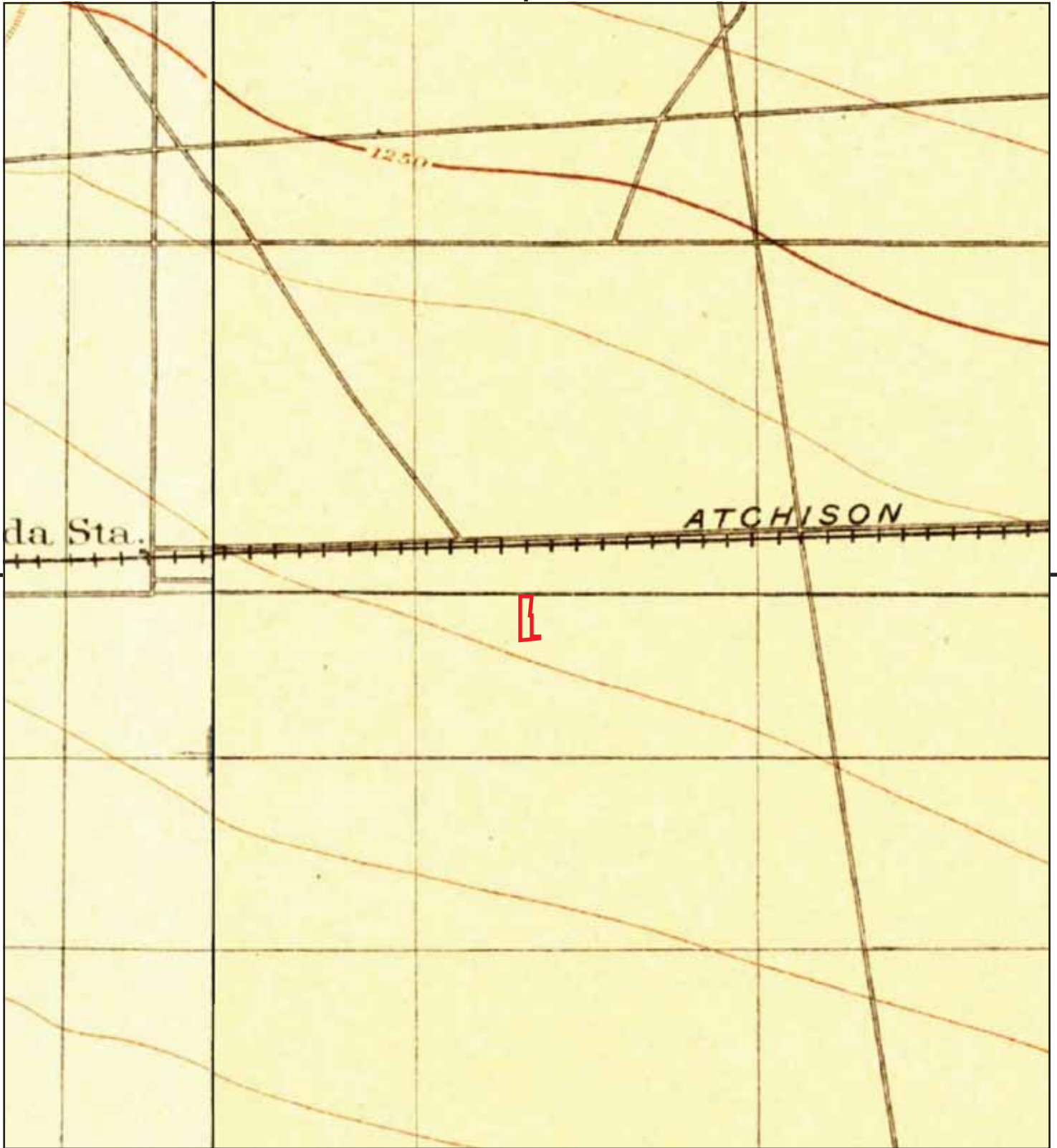
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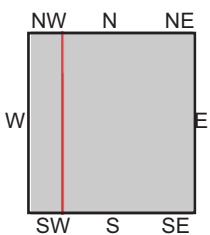
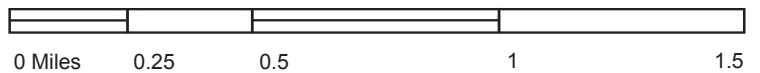
TP, San Bernardino, 1901, 15-minute

SITE NAME: Proposed CSU Facility, Fontana
 ADDRESS: 14677 Merrill Avenue
 Fontana, CA 92335
 CLIENT: CHJ Consultants





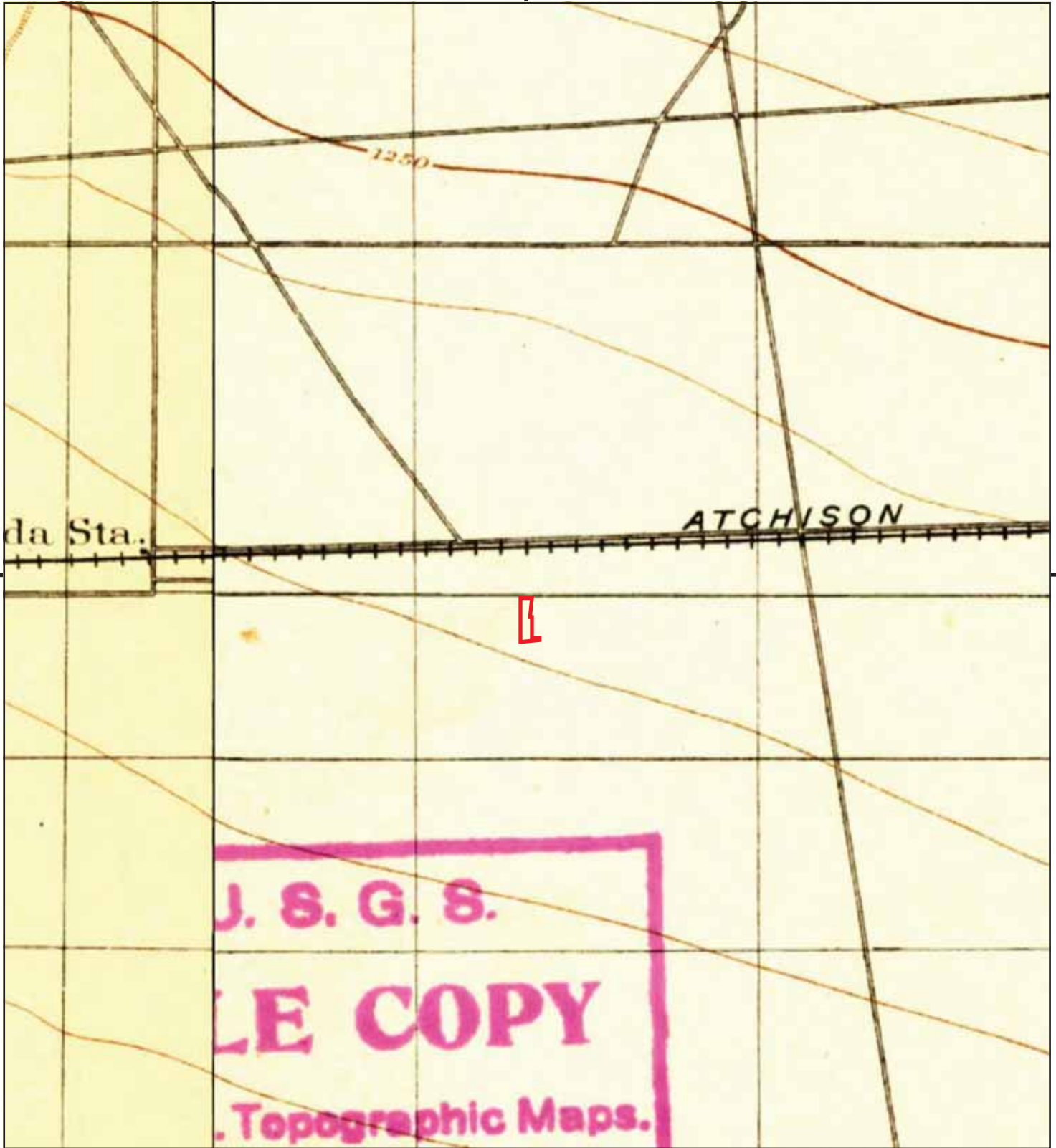
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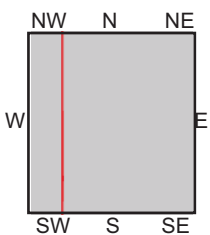
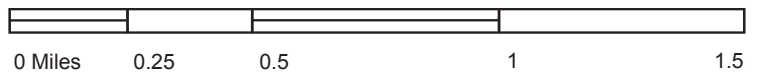
TP, San Bernardino, 1898, 15-minute
W, Cucamonga, 1900, 15-minute

SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana, CA 92335
CLIENT: CHJ Consultants





This report includes information from the following map sheet(s).



TP, San Bernardino, 1896, 15-minute
W, Cucamonga, 1897, 15-minute

SITE NAME: Proposed CSU Facility, Fontana
ADDRESS: 14677 Merrill Avenue
Fontana, CA 92335
CLIENT: CHJ Consultants





ENCLOSURE H

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KUNZMAN ASSOCIATES, INC.

**FONTANA CRISIS STABILIZATION UNIT FACILITY
(7N25)**

NOISE IMPACT ANALYSIS

December 2, 2016



FONTANA CRISIS STABILIZATION UNIT FACILITY (7N25)

NOISE IMPACT ANALYSIS

December 2, 2016

Prepared by:

Roma Stromberg, INCE/M.S. ■ Catherine Howe, M.S.
Carl Ballard, LEED GA ■ William Kunzman, P.E.

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I. INTRODUCTION AND SETTING

A. Purpose and Objectives

The purpose of this report is to provide an assessment of the noise impacts resulting from development of the proposed Fontana Crisis Residential Treatment Facility (7N25) project and to identify mitigation measures that may be necessary to reduce those impacts. The noise issues related to the proposed land use and development have been evaluated in the context of the California Environmental Quality Act.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to noise analysis, a list of acronyms and a glossary of terms have been provided in Appendix A and Appendix B of this report, respectively.

B. Project Location

The project site is located south of Merrill Avenue and west of Redwood Avenue in the County of San Bernardino. A vicinity map showing the project location is provided on Figure 1.

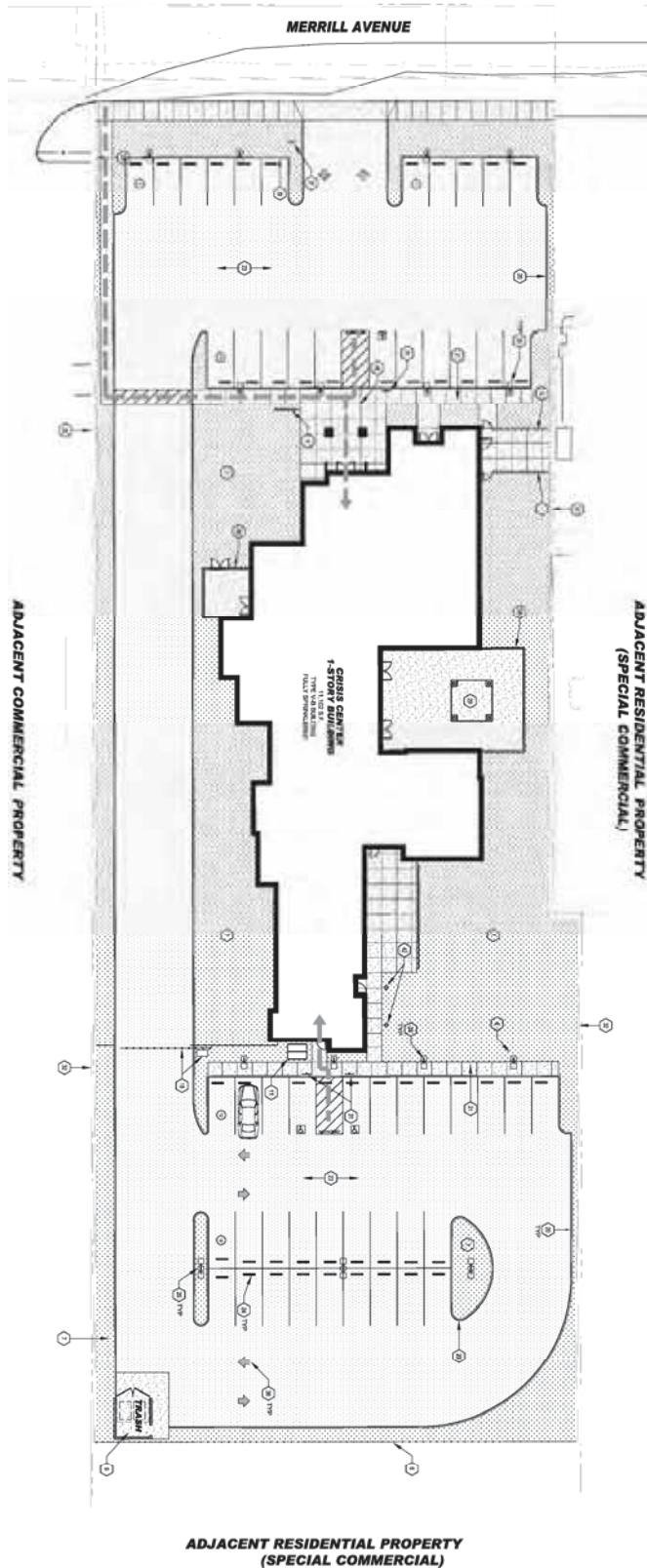
C. Project Description

The approximately 2.35 acre project site is proposed to be developed with an 11,102 square foot crisis stabilization unit facility. The crisis facility would include 52 parking spaces. Figure 2 illustrates the project site plan. The project is anticipated to generate approximately 98 average daily vehicle trips.

Figure 1
Project Location Map



Figure 2
Site Plan



II. NOISE AND VIBRATION FUNDAMENTALS

A. Noise Fundamentals

Sound is a pressure wave created by a moving or vibrating source that travels through an elastic medium such as air. Noise is defined as unwanted or objectionable sound. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and in extreme circumstances, hearing impairment.

Commonly used noise terms are presented in Appendix B. The unit of measurement used to describe a noise level is the decibel (dB). The human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, the “A-weighted” noise scale, which weights the frequencies to which humans are sensitive, is used for measurements. Noise levels using A-weighted measurements are written dB(A) or dBA.

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source as well as ground absorption, atmospheric effects and refraction, and shielding by natural and manmade features. Sound from point sources, such as air conditioning condensers, radiates uniformly outward as it travels away from the source in a spherical pattern. The noise drop-off rate associated with this geometric spreading is 6 dBA per each doubling of the distance (dBA/DD). Transportation noise sources such as roadways are typically analyzed as line sources, since at any given moment the receiver may be impacted by noise from multiple vehicles at various locations along the roadway. Because of the geometry of a line source, the noise drop-off rate associated with the geometric spreading of a line source is 3 dBA/DD.

Decibels are measured on a logarithmic scale, which quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as a doubled traffic volume, would increase the noise levels by 3 dBA; halving of the energy would result in a 3 dBA decrease.

Figure 3 shows the relationship of various noise levels to commonly experienced noise events.

Average noise levels over a period of minutes or hours are usually expressed as dBA_{Leq} , or the equivalent noise level for that period of time. For example, $\text{Leq}(3)$ would represent a 3-hour average. When no period is specified, a one-hour average is assumed.

Noise standards for land use compatibility are stated in terms of the Community Noise Equivalent Level (CNEL) and the Day-Night Average Noise Level (L_{dn}). CNEL is a 24-hour weighted average measure of community noise. CNEL is obtained by adding five decibels to sound levels in the evening (7:00 PM to 10:00 PM), and by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the evening and nighttime hours. L_{dn} is a very similar 24-hour average measure that weights only the nighttime hours.

It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA; that a change of 5 dBA is readily perceptible, and that an increase (decrease) of 10 dBA sounds twice (half) as loud. This definition is recommended by the California Department of Transportation's Traffic Noise Analysis Protocol for New Highway and Reconstruction Projects (2009).

B. Vibration Fundamentals

The way in which vibration is transmitted through the earth is called propagation. Propagation of earthborn vibrations is complicated and difficult to predict because of the endless variations in the soil through which waves travel. There are three main types of vibration propagation: surface, compression and shear waves. Surface waves, or Raleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water. Compression waves, or P-waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. Shear waves, or S-waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse or "side-to-side and perpendicular to the direction of propagation".

As vibration waves propagate from a source, the energy is spread over an ever-increasing area such that the energy level striking a given point is reduced with the distance from the energy source. This geometric spreading loss is inversely proportional to the square of the distance. Wave energy is also reduced with distance as a result of material damping in the form of internal friction, soil layering, and void spaces. The amount of attenuation provided by material damping varies with soil type and condition as well as the frequency of the wave.

Construction operations generally include a wide range of activities that can generate groundborne vibration. Vibratory compactors or rollers, pile drivers, and pavement breakers can generate perceptible amounts of vibration at up to 200 feet. Heavy trucks can also generate groundborne vibrations, which can vary depending on vehicle type, weight, and pavement conditions. Potholes, pavement joints, discontinuities, or the differential settlement of pavement all increase the vibration levels from vehicles passing over a road surface. Construction vibration is normally of greater concern than vibration from normal traffic flows on streets and freeways with smooth pavement conditions.

Typically, particle velocity or acceleration (measured in gravities) is used to describe vibration. Table 1 shows the peak particle velocities (PPV) of some common construction equipment and Table 2 shows typical human reactions to various levels of PPV as well as the effect of PPV on buildings.

Table 1

Construction Equipment Vibration Source Levels¹

Equipment	Peak Partical Velocity in inches per second ²		
	at 25 feet	at 50 feet	at 100 feet
Clam Shovel Drop (slurry wall)	0.202	0.071	0.025
Vibratory Roller	0.210	0.074	0.026
Hoe Ram	0.089	0.031	0.011
Large Bulldozer	0.089	0.031	0.011
Caisson Drilling	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Jackhammer	0.035	0.012	0.004
Small Bulldozer	0.003	0.001	0.0004

¹ Source: Federal Transit Administration: Transit Noise and Vibration Impact Assessment, 2006.

² Bold values are considered annoying to people.

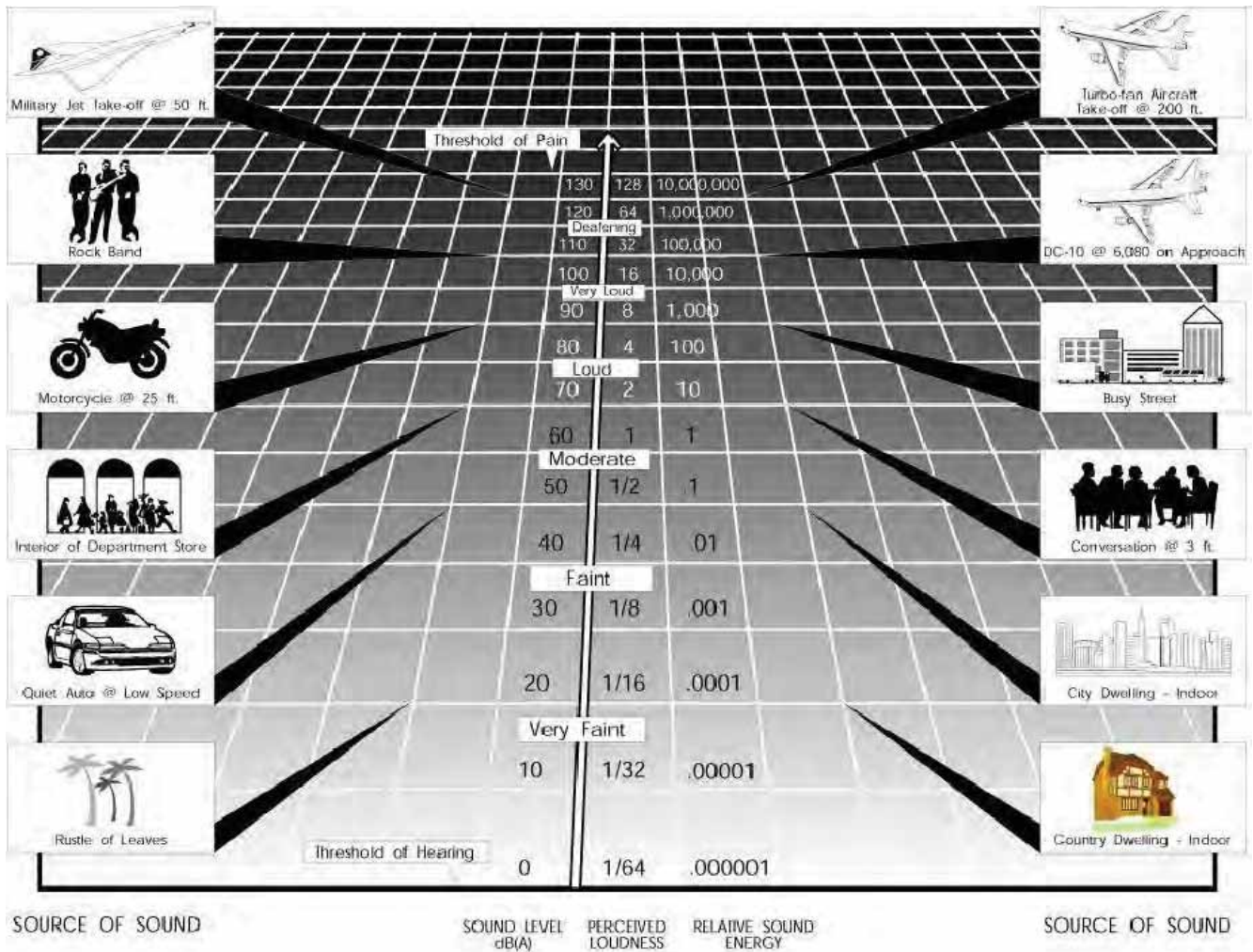
Table 2

Typical Human Reaction and Effect on Buildings Due to Groundborne Vibration¹

Vibration Level Peak Particle Velocity (PPV)	Human Reaction	Effect on Buildings
0.006–0.019 in/sec	Threshold of perception, possibility of intrusion	Vibrations unlikely to cause damage of any type
0.08 in/sec	Vibrations readily perceptible	Recommended upper level of vibration to which ruins and ancient monuments should be subjected
0.10 in/sec	Level at which continuous vibration begins to annoy people	Virtually no risk of “architectural” (i.e., not structural) damage to normal buildings
0.20 in/sec	Vibrations annoying to people in buildings	Threshold at which there is a risk to “architectural” damage to normal dwelling – houses with plastered walls and ceilings
0.4–0.6 in/sec	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause “architectural” damage and possibly minor structural damage

¹ Source: California Department of Transportation, 2002.

Figure 3
Common Noise Sources and Noise Levels



III. EXISTING NOISE ENVIRONMENT

A. Sensitive Noise Receptors

The project site is bordered by Merrill Avenue to the north, industrial uses to the west, a single-family detached residential dwelling unit and industrial uses to the south, and single-family detached residential dwelling units and Redwood Avenue to the east.

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, single and multiple-family residential, including transient lodging, motels and hotel uses make up the majority of these areas. Sensitive receptors that may be affected by project generated noise include the single-family detached residential dwelling units located adjacent to the eastern and southern property lines. Traffic noise and noise associated with the adjacent industrial land uses may impact the proposed project.

B. Ambient Noise Measurements

An American National Standards Institute (ANSI Section S14 1979, Type 1) Larson Davis model LxT sound level meter was used to document existing ambient noise levels. In order to document existing ambient noise levels in the project area, two (2) 10-minute daytime noise measurements were taken between 3:19 PM and 3:54 PM on November 21, 2016. In addition, one (1) 5-hour noise measurement was taken on November 29, 2016 starting at 1:00 PM and ending at 6:00 PM. Field worksheets and noise measurement output data is included in Appendix C.

As shown on Figure 4, the noise measurements were taken near the single-family detached residential dwelling units located adjacent to the eastern and southern property lines and at the western property line near adjacent industrial uses. Table 3 provides a summary of the short-term ambient noise data. Ambient noise levels ranged between 56.4 and 58.7 dBA_{Leq}. Table 4 provides a summary of the hourly intervals for the long-term ambient noise data. Ambient noise levels ranged from 52.2 to 55.7 dBA_{Leq} over the 5-hour period. The dominant noise source was from vehicles traveling along Redwood Avenue and Merrill Avenue. Residential, industrial and commercial noise as well as overhead aircrafts were also audible, but not dominant.

Table 3

Short-Term Noise Measurement Summary (dBA)^{1, 2}

Daytime								
Site Location	Time Started	Leq	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)
NM1	3:19 PM	58.7	75.9	48.8	66.4	60.4	57.5	55.3
NM2	3:44 PM	56.4	67.5	46.5	63.3	60.2	56.8	54.7

¹ See Figure 4 for noise measurement locations. Each noise measurement was performed over a 10-minute duration.

² Noise measurements were performed on November 21, 2016.

Table 4

Long-Term Noise Measurement Summary (dBA)^{1, 2}

Time Interval	Leq	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)
Overall Summary	54.1	74.8	42.6	60.2	57.1	54.6	52.6
1:00 PM - 2:00 PM	52.2	68.0	43.0	58.9	55.2	52.5	50.4
2:00PM - 3:00 PM	53.1	69.0	45.0	59.8	55.7	52.9	50.8
3:00 PM - 4:00 PM	53.6	69.6	42.6	59.7	56.8	54.0	51.9
4:00 PM - 5:00 PM	55.4	74.8	46.3	62.1	58.4	55.5	53.5
5:00 PM - 6:00 PM	55.7	72.5	50.1	60.7	57.9	56.1	54.8

¹. See Figure 4 for noise measurement location. Noise measurement was performed over a 5-hour period.

² Noise measurements were performed on November 29, 2016 to November 30, 2016.

Figure 4
Noise Measurement Location Map



IV. REGULATORY SETTING

A. Federal Regulations

1. Federal Noise Control Act of 1972

The U.S. Environmental Protection Agency (EPA) Office of Noise Abatement and Control was originally established to coordinate federal noise control activities. After its inception, EPA's Office of Noise Abatement and Control issued the Federal Noise Control Act of 1972, establishing programs and guidelines to identify and address the effects of noise on public health, welfare, and the environment. In response, the EPA published Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (Levels of Environmental Noise). The Levels of Environmental Noise recommended that the Ldn should not exceed 55 dBA outdoors or 45 dBA indoors to prevent significant activity interference and annoyance in noise-sensitive areas.

In addition, the Levels of Environmental Noise identified five (5) dBA as an "adequate margin of safety" for a noise level increase relative to a baseline noise exposure level of 55 dBA Ldn (i.e., there would not be a noticeable increase in adverse community reaction with an increase of five dBA or less from this baseline level). The EPA did not promote these findings as universal standards or regulatory goals with mandatory applicability to all communities, but rather as advisory exposure levels below which there would be no risk to a community from any health or welfare effect of noise.

In 1981, EPA administrators determined that subjective issues such as noise would be better addressed at lower levels of government. Consequently, in 1982 responsibilities for regulating noise control policies were transferred to State and local governments. However, noise control guidelines and regulations contained in EPA rulings in prior years remain in place by designated Federal agencies, allowing more individualized control for specific issues by designated Federal, State, and local government agencies.

B. State Regulations

1. State of California General Plan Guidelines 2003

Though not adopted by law, the State of California General Plan Guidelines 2003, published by the California Governor's Office of Planning and Research (OPR) (OPR Guidelines), provide guidance for the compatibility of projects within areas of specific noise exposure. The OPR Guidelines identify the suitability of various types of construction relative to a range of outdoor noise levels and provide each local community some flexibility in setting local noise standards that allow for the variability in community preferences. Findings presented in the Levels of Environmental Noise Document (EPA 1974) influenced the recommendations of the OPR Guidelines, most importantly in the choice of noise exposure metrics (i.e., Ldn or CNEL) and in the upper limits for the Normally Acceptable outdoor exposure of noise-sensitive uses. The OPR Guidelines include a Noise and Land Use Compatibility Matrix identifies acceptable and

unacceptable community noise exposure limits for various land use categories. The County of San Bernardino has developed its own noise standards and the City of Fontana utilizes the compatibility matrix as indicated in Table 5.

2. California Environmental Quality Act

The California Environmental Quality Act Guidelines (Appendix G) establishes thresholds for noise impact analysis. Two of these standards apply to what is referred to as a "substantial increase" in ambient noise levels. The County does not have a definition of a substantial increase, nor does CEQA establish a numerical value for this threshold. Noise generated by transportation sources propagates differently than noise generated by point sources. Therefore, for purposes of this analysis, the following two thresholds were utilized to evaluate the project's potential to result in substantial increases in ambient noise levels.

Traffic Noise

Roadway noise impacts would be considered significant if the project increases noise levels at a noise sensitive land use by 3 dBA CNEL and if: (1) the existing noise levels already exceed the noise/land use compatibility standard considered to be "normally acceptable" (for the affected land uses, which in this case are residential which are considered to be normally acceptable in environments where noise levels reach up to 65 dBA CNEL), or (2) the project increases noise levels from below the applicable standard 65 dBA CNEL standard to above the applicable standard 65 dBA CNEL.

Stationary Noise

Project operations, including noise from parking lot activities, loading and unloading of supplies and HVAC, may produce an increase in noise levels which disturbs the peace and quiet of adjacent residential areas or cause discomfort/annoyance to area residents. A 5 dBA increase is considered to be "readily audible", which seems to correlate most closely to "substantial increase." For the purposes of this report, a substantial permanent increase in ambient noise levels due to stationary noise sources shall be considered 5 dBA L_{eq} .

3. California Department of Transportation (fs)

The California Department of Transportation (Caltrans) has published one of the seminal works for the analysis of groundborne noise and vibration relating to transportation- and construction-induced vibrations and although the project is not subject to these regulations, it serves as useful tools to evaluate vibration impacts. These guidelines recommend that a standard of 0.2 inches per section (in/sec) PPV not be exceeded for the protection of normal residential buildings (Caltrans 2002). Caltrans guidance will be used for this analysis considering that neither the County of San Bernardino or the City of Fontana have established significance criteria for the evaluation of groundborne vibration.

C. Local Regulations

1. County of San Bernardino General Plan

The County of San Bernardino General Plan Noise Element provides goals, policies and implementation measures that are intended to achieve and maintain land use compatibility with environmental noise levels and to ensure that County residents will be protected from excessive noise intrusion, both now and in the future. Goals and Policies applicable to the proposed project are presented below.

Goal N 1. The County will abate and avoid excessive noise exposures through noise mitigation measures incorporated into the design of new noise generating and new noise sensitive land uses, while protecting areas within the County where the present noise environment is within acceptable limits.

Policy N 1.2. Ensure that new development of residential or other noise-sensitive land uses is not permitted in noise-impacted areas unless effective mitigation measures are incorporated into the project design to reduce noise levels to the standards of Noise-sensitive land uses include residential uses, schools, hospitals, nursing homes, places of worship and libraries.

Policy 1.4. Enforce the state noise insulation standards (California Administrative Code, Title 24) and Chapter 35 of the California Building Code (CBC) 6.

Policy N 1.5. Limit truck traffic in residential and commercial areas to designated truck routes; limit construction, delivery, and through-truck traffic to designated routes; and distribute maps of approved truck routes to County traffic officers.

Policy N 1.6. Enforce the hourly noise-level performance standards for stationary and other locally regulated sources, such as industrial, recreational, and construction activities as well as mechanical and electrical equipment.

Policy N 1.7. Prevent incompatible land uses, by reason of excessive noise levels, from occurring in the future.

Goal N 2. The County will strive to preserve and maintain the quiet environment of mountain, desert and other rural areas.

Policy N 2.1. The County will require appropriate and feasible on-site noise attenuating measures that may include noise walls, enclosure of noise generating equipment, site planning to locate noise sources away from sensitive receptors, and other comparable features.

2. County of San Bernardino Development Code

Section 83.01.080 of the County of San Bernardino Development Code establishes standards concerning acceptable noise levels for both noise sensitive land uses and for

noise generating land uses. Sections of the code applicable to the proposed project are presented below.

Noise Standards for Stationary Noise Sources

Table 6, Noise Standards for Stationary Noise Sources, describes the noise standard for emanations from a stationary noise source, as it affects adjacent properties. Stationary noise sources associated with the proposed project may impact nearby residential land uses. As shown in Table 6, the base exterior noise level standards for residential land uses are 55 dBA Leq during daytime hours and 45 dBA during nighttime hours. As described under Table 6, other criteria apply depending on the duration of the noise event. For example, the maximum event noise level standard for impacts to the adjacent residential land uses is 75 dBA Leq during daytime hours and 65 dBA during nighttime hours.

Noise Standards from Adjacent Mobile Noise Sources

The County of San Bernardino Development Code also sets forth interior and exterior noise level standards for mobile standards (see Table 7). The residential standards of 45 dBA CNEL for interior noise and the 65 dBA CNEL (see footnote 4) apply to transportation noise impacts to the proposed project. The proposed project itself is not expected to generate enough vehicle traffic to impact off-site receptors.

Construction Noise

Temporary construction, maintenance, repair, and demolition activities between 7:00 AM and 7:00 PM, except Sundays and Federal holidays are exempt from Section 83.01.080(g)(3) the San Bernardino Development Code.

These seem to be contradictory to the General Plan Policy N1.6 above. Therefore, it is assumed that construction noise is exempt only between the hours presented above under Ordinance 83.01.080(g)(3) above.

Ground Vibration

Section 83.01.090(a) of the County of San Bernardino Development Code prohibits the creation of ground vibration that can be felt without the aid of instruments at or beyond the lot-line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to two-tenths (0.2) inches per second measured at or beyond the lot-line.

- (c) **Exempt vibrations.** The following sources of vibration shall be exempt from the regulations of this Section.
 - (2) Temporary construction, maintenance, repair, or demolition activities between 7:00 AM and 7:00 PM, except Sundays and Federal holidays.

3. City of Fontana General Plan

Applicable goals and policies governing environmental noise in the City are set forth in the General Plan Noise Element. Those applicable to the proposed project are presented below.

Goal 1: Our City protects its sensitive land uses from excessive noise through diligent planning.

Policies:

1. New sensitive land uses shall be prohibited in incompatible areas.
2. Noise-tolerant land uses shall be guided into areas irrevocably committed to land uses that are noise-producing, such as transportation corridors or within the projected noise contours of the adjacent airports.
3. The following uses shall be considered noise-sensitive and discouraged in areas in excess of 65 dBA CNEL:
 - a. Residential Uses; Hospitals; Rest Homes; Long Term Care Facilities; and Mental Care Facilities.
4. The following uses shall be considered noise-sensitive and discouraged in areas in excess of 65 Leq(12):
 - a. Schools; Libraries; Places of worship; and Passive Recreation Uses.
5. Where sensitive uses are to be placed along transportation routes, mitigation shall be provided to ensure compliance with State mandated noise levels.
6. The State of California Office of Planning and Research General Plan Guidelines shall be followed with respect to acoustical study requirements.
7. Noise spillover or encroachment from commercial, industrial and educational land uses shall be minimized into adjoining residential neighborhoods or noise-sensitive uses.

Goal 2: Our City has a diverse and efficiently operated ground transportation system that generates the minimum feasible noise on its residents.

Policies:

5. Development that generates increased traffic and subsequent increases in the ambient noise level adjacent to noise-sensitive land uses shall provide appropriate mitigation measures.

Goal 3: Our City's residents are protected from the negative effects of "spill over" noise in our community.

Policies:

1. Residential land uses and areas identified as noise sensitive shall be protected from excessive noise from non-transportation sources including industrial, commercial, and residential activities and equipment.
2. Projects located in commercial areas shall not exceed stationary-source noise standards at the property line of proximate residential or commercial uses, as appropriate.

3. Industrial uses shall not exceed commercial or residential stationary source noise standards at the most proximate land uses, as appropriate. (Industrial noise may spill over to proximate industrial uses so long as the combined noise does not exceed the appropriate industrial standards.)
5. Construction shall be performed as quietly as feasible when performed in proximity to residential or other noise sensitive land uses.

4. City of Fontana Ordinance

Section 18-62. Prohibited noise generally, penalties, remedies- It shall be unlawful for any person within the city to make, cause, or to continue to make or cause, loud, excessive, impulsive or intrusive sound or noise that annoys or disturbs persons of ordinary sensibilities.

Section 18-63. Scope, enumeration of prohibited noises - The following acts, which create loud, excessive, impulsive or intrusive sound or noise that annoys or disturbs persons of ordinary sensibilities from a distance of 50 feet or more from the edge of the property, structure or unit in which the source is located, are declared to be in violation of this article, but such enumeration shall not be deemed to be exclusive, namely:

4. *Defect in vehicle or load.* The use of any automobile, motorcycle or vehicle so out of repair or loaded or used in such manner as to create loud, excessive, impulsive or intrusive and unnecessary grating, grinding, rattling or other noise.
5. *Loading, unloading or opening boxes.* The creation of a loud, excessive, impulsive or intrusive and excessive noise in connection with loading or unloading of any vehicle or the opening and destruction of bales, boxes, crates and containers.
6. *Construction or repairing of buildings or structures.* The erection (including excavating), demolition, alteration or repair of any building or structure other than between the hours of 7:00 AM and 6:00 PM on weekdays and between the hours of 8:00 AM and 5:00 PM on Saturdays, except in case of urgent necessity in the interest of public health and safety, and then only with a permit from the building inspector, which permit may be granted for a period not to exceed three days or less while the emergency continues and which permit may be renewed for periods of three days or less while the emergency continues.

If the building inspector should determine that the public health and safety will not be impaired by the erection, demolition, alteration or repair of any building or structure or the excavation of streets and highways within the hours of 6:00 PM and 7:00 AM, and if he shall further determine that loss or inconvenience would result to any party in interest, he may grant permission for such work to be done on weekdays within the hours of 6:00 PM and 7:00 AM, upon application being made at the time the permit for the work is awarded or during the progress of the work.

10. *Piledrivers, hammers, etc.* The operation between the hours of 6:00 PM and 7:00 AM of any piledriver, steamshovel, pneumatic hammer, derrick, steam or electric hoist or other appliance, the use of which is attended by loud, excessive, impulsive or intrusive noise.
11. *Blowers.* The operation of any noise-creating blower or power fan or any internal combustion engine other than from the hours of 7:00 AM and 6:00 PM on a weekday and the hours of 8:00 AM and 5:00 PM on a Saturday, the operation of which causes noise due to the explosion of operating gases or fluids, unless the noise from such blower or fan is muffled and such engine is equipped with a muffler device sufficient to deaden such noise.

Section 30-182. Noise - No use shall create or cause to be created any sound which exceeds the ambient noise standards outlined in the table below.

Location of Measurement	Maximum Allowable	
	7:00 AM to 10:00 PM	10:00 PM to 7:00 AM
All Zoning Districts		
Interior	45 db	45 db
Exterior	65 db	65 db

Section 30-259. Noise and Vibration- No person shall create or cause to be created any sound which exceeds the noise levels in this section as measured at the property line of any residentially zoned property:

1. The noise level between 7:00 AM and 10:00 PM shall not exceed 65 db(A).
2. The noise level between 10:00 PM and 7:00 AM shall not exceed 70 db(A).

In addition, no person shall create or cause to be created any activity which causes a vibration which can be felt beyond the property line of any residentially zoned property with or without the aid of an instrument.

Table 5

City of Fontana Land Use Compatibility Guidelines for Noise¹

Land Use Category	Community Noise Equivalent Level (CNEL)					
	55	60	65	70	75	80
Residential: Low Density Single Family, Duplex, Mobile Homes						
Residential: Multi-Family						
Transient Lodging: Hotels/Motels						
Schools, Libraries, Churches, Hospitals, Nursing Homes						
Auditoriums, Concert Halls, Amphitheatres						
Sports Arena, Outdoor Spectator Sports						
Playgrounds, Neighborhood Parks						
Golf Courses, Riding Stables, Water Recreation, Cemeteries						
Office Buildings, Business Commercial and Professional						
Manufacturing Utilities, Agriculture						



Normally Acceptable:

Specified land use is satisfactory, based up the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.



Conditionally Acceptable:

New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed insulation features included in the design. Conventional constuction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.



Normally Unacceptable:

New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise reduction features included in the design.



Clearly Unacceptable:

New construction or development should generally not be undertaken.

¹Source: California Governor's Office of Planning and Research, State of California General Plan Guidelines, Appendix C: Guidelines for the Preparation and Content of Noise Elements of the General Plan, February 1976 and City of Fontana General Plan, 2003.

Table 6

**Noise Standards for Stationary Noise Sources
(Development Code Table 83-2)¹**

Affected Land Uses (Receiving Noise)	7:00 AM to 10:00 PM dBA L _{eq}	10:00 PM to 7:00 AM dBA L _{eq}
Residential	55	45
Professional Services	55	55
Other Commercial	60	60
Industrial	70	70

Noise limit categories. No person shall operate or cause to be operated a source of sound at a location or allow the creation of noise on property owned, leased, occupied, or otherwise controlled by the person, which causes the noise level, when measured on another property, either incorporated or unincorporated, to exceed any one of the following:

(A) The noise standard for the receiving land use as specified in Subsection B (Noise-impacted areas), above, for a cumulative period of more than 30 minutes in any hour.

(B) The noise standard plus 5 dB(A) for a cumulative period of more than 15 minutes in any hour.

(C) The noise standard plus 10 dB(A) for a cumulative period of more than five minutes in any hour.

(D) The noise standard plus 15 dB(A) for a cumulative period of more than one minute in any hour.

(E) The noise standard plus 20 dB(A) for any period of time.

If the measured ambient level exceeds any of the first four noise limit categories, the allowable noise exposure standard shall be increased to reflect the ambient noise level. If the ambient noise level exceeds the fifth noise limit category, the maximum allowable noise level under this category shall be increased to reflect the maximum ambient noise level.

¹ Source: County of San Bernardino Development Code.

Table 7

Noise Standards for Mobile Noise Sources
(Development Code Table 83-3)¹

Land Use		L _{dn} (or CNEL) dB(A)	
Categories	Uses	Interior ²	Exterior ³
Residential	Single and multi-family, duplex, mobile homes	45	60 ⁴
Commercial	Hotel, motel, transient housing	45	60 ⁴
	Commercial retail, bank, restaurant	50	n/a
	Office building, research and development, professional offices	45	65
	Amphitheater, concert hall, auditorium, movie theater	45	n/a
Institutional/Public	Hospital, nursing home, school classroom, religious institution, library	45	65
Open Space	Park	n/a	65

¹ Source: County of San Bernardino Development Code.

² The indoor environment shall exclude bathrooms, kitchens, toilets, closets and corridors.

³ The outdoor environment shall be limited to:

Hospital/office building patios

Hotel and motel recreation areas

Mobile home parks

Multi-family private patios or balconies

Park picnic areas

Private yard of single-family dwellings

School playgrounds

⁴ An exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

V. ANALYTICAL METHODOLOGY AND MODEL PARAMETERS

A. Noise Modeling and Input

1. Road Construction Noise Model (RCNM)

A worst-case construction noise scenario was modeled using a version of the Federal Highway Administration's Roadway Construction Noise Model (RCNM). RCNM utilizes standard noise emission levels for many different types of equipment and includes utilization percentage, impact, and shielding parameters. Modeling input parameters and output are provided in Appendix D.

2. Federal Highway Administration (FHWA) Traffic Noise Prediction Model

Future Buildout noise levels along acoustically significant area roadways were modeled utilizing the FHWA Traffic Noise Prediction Model - FHWA-RD-77-108. This model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). Adjustments are then made to the REMEL to account for: total average daily trips (ADT), roadway classification, width, speed and truck mix, roadway grade and site conditions (hard or soft ground surface). Surfaces adjacent to all modeled roadways were assumed to have a "hard site" to predict worst-case, conservative noise levels. A hard site, such as pavement, is highly reflective and does not attenuate noise as quickly as grass or other soft sites. Possible reductions in noise levels due to intervening topography and vegetation were not accounted for in the analysis.

The County of San Bernardino does not have a Day/Evening/Night (D/E/N) split published for use in acoustical studies. Road segments were assigned D/E/N splits recommended by the Riverside County Department of Industrial Hygiene for noise modeling. Vehicle speeds were based on roadway classification, per County protocol. FHWA worksheets are included in Appendix E.

3. SoundPLAN

The SoundPLAN noise modeling software was utilized to model noise associated with the operation of the proposed project. This model represents a worst-case operational noise scenario. Noise sources associated with the proposed parking areas were included in the model. Noise associated with parking lots include, but are not limited to idling cars/trucks, trucks diesel engines, exhaust systems, trailer coupling, air brakes, warning signal, doors closing, and starting engine noise. The parking lot was modeled with approximately 52 parking spaces during peak hour. Heating and Air Conditioning Units were also modeled with a sound power level of 74 dBA, based on the maximum sound power levels specified by the manufacturer. The results of the operational noise model are provided in Section VI.

VI. IMPACT ANALYSIS

A. Noise Impacts

This impact discussion analyzes the potential for noise impacts to cause an exposure of person to or generation of noise levels in excess of established County of San Bernardino noise standards related to construction noise, transportation and railroad related noise impacts to or from the proposed project.

1. Construction Noise

Existing single-family detached residential dwelling units located east and south of the project site may be affected by short-term noise impacts associated with the transport of workers, the movement of construction materials to and from the project site, ground clearing, excavation, grading, and building activities. Construction noise is considered a short-term impact and would be considered significant if construction activities are undertaken outside the allowable times as described by Section 83.01.080(g)(3) of the San Bernardino Development Code. The noise analysis reviews the construction noise levels during the various phases of the project.

Construction noise varies depending on the construction process, type of equipment involved, location of the construction site with respect to sensitive receptors, the schedule proposed to carry out each task (e.g., hours and days of the week) and the duration of the construction work. Site grading is expected to produce the highest sustained construction noise levels. Typical noise sources and noise levels associated with the site grading phase of construction are shown in Table 8. Typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three to four minutes at lower power settings. A likely worst-case construction noise scenario during grading assumes the use of a grader, a dozer, a backhoe and a water truck (modeled as a dump truck) operating between 35 and 250 feet from the nearest sensitive receptor.

Assuming a usage factor of 40 percent for each piece of equipment, unmitigated noise levels have the potential to reach 84.2 dBA L_{eq} and 88.1 dBA L_{max} at the nearest sensitive receptor during grading.

Consistency with Applicable Standards

County of San Bernardino General Plan

***Policy N 1.6.** Enforce the hourly noise-level performance standards for stationary and other locally regulated sources, such as industrial, recreational, and construction activities as well as mechanical and electrical equipment.*

San Bernardino Development Code

Temporary construction, maintenance, repair, and demolition activities between 7:00 AM and 7:00 PM, except Sundays and Federal holidays are exempt from Section 83.01.080(g)(3) of the San Bernardino Development Code.

City of Fontana General Plan

Policy 3.5. *Construction shall be performed as quietly as feasible when performed in proximity to residential or other noise sensitive land uses.*

City of Fontana Ordinance

The erection (including excavating), demolition, alteration or repair of any building or structure between the hours of 7:00 AM and 6:00 PM on weekdays and between the hours of 8:00 AM and 5:00 PM on Saturdays are allowed as per Section 18-63.

Summary of Construction Related Noise Impacts. Limiting project construction to the hours in which construction activities are exempt from the County of San Bernardino's and the City of Fontana's noise ordinances as well as implementing all construction mitigation will minimize construction noise impacts at nearby sensitive receptors. Mitigation Measures are presented in Section VII of this report.

2. Noise Impacts to Off-Site Receptors Due to Project Generated Traffic

The proposed project is expected to generate approximately 156 average daily vehicle trips which will not noticeably increase ambient noise levels in the project area. Typically, a doubling of traffic volumes is required to result in an increase of 3 dBA, which is considered to be a barely audible change. Based on project trip generation information provided by Kunzman Associates, Inc. (November 2016), project generated trips will not result in a doubling of traffic volumes along any affected road segment. No further analysis is necessary.

5. Future Traffic Noise Impacts to the Proposed Project

As stated previously, the County of San Bernardino Development Code Table 83-3 (see Table 7) prescribes mobile noise level limits for different land uses. The County normally allows transient housing in areas where exterior noise levels reach up to 65 dBA CNEL, while the City of Fontana allows these uses in areas where exterior noise levels reach up to 70 dBA CNEL. Further, interior noise levels are not to exceed 45 dBA CNEL.

Roadways that may generate enough traffic noise under buildout conditions to effect the proposed crisis facility includes Merrill Avenue. The County of San Bernardino General Plan identifies Merrill Avenue as a Secondary Highway, while the City of Fontana General Plan Circulation Master Plan identifies Merrill Avenue as a Modified Secondary Highway. As the County of San Bernardino does not have published buildout roadway capacities, per County of Riverside Industrial Hygiene Guidelines for

Determining and Mitigating Traffic Noise Impacts to Residential Structures and County of Riverside General Plan, Chapter 4, Figure C-3 "Link Volume Capacities/Level of Service for Riverside County Roadways" revised March 2001, future buildout noise levels associated with these roadways were modeled using Average Daily Trip (ADT) Level of Service "C" design capacities (also known as future build-out average daily traffic volumes). Merrill Avenue is expected to accommodate up to 20,700 vehicles per day at the Level of Service C.

FHWA modeling was conducted to calculate noise levels associated with buildout vehicle traffic noise from each of these roadways. Buildout traffic noise levels could reach up to 66.7 dBA CNEL at the portion of the proposed building that lies closest to Merrill Avenue, approximately 142 feet south of the centerline of the roadway. In addition, the distances from the centerline to the 60, 65, and 70 CNEL contours for Merrill Avenue have been calculated and are presented in Table 9. Modeling spreadsheets are presented in Appendix E.

Consistency with Applicable Standards

San Bernardino Development Code

The County of San Bernardino Development Code Table 83-3 (see Table 7) prescribes mobile noise level limits for different land uses. The residential standard was applied to the proposed project as 24-hour care and temporary lodging will be provided. Note 4 of Table 7 (Development Code Table 83-3) allows an exterior noise level of up to 65 dB(A) (or CNEL) provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

City of Fontana General Plan

The City of Fontana considers land uses such as public institutions in areas whose exterior noise levels reach up to 70 dBA CNEL as both "normally acceptable" and "conditionally acceptable." However, as stated previously, the residential standard was applied to the proposed project as 24-hour care and temporary lodging will be provided. Therefore, the City of Fontana considers residential land uses in areas whose exterior noise levels reach up to 60 dBA CNEL as "normally acceptable" and up to 70 dBA CNEL as "conditionally acceptable."

Summary of Traffic Noise Impacts to the Proposed Project. Future noise levels associated with traffic traveling on Merrill Avenue are expected to reach up to 66.7 dBA CNEL and would exceed the County's exterior noise standards for mobile noise sources

for residential land uses and transient housing which is 65 dBA CNEL¹ as long as noise levels at outdoor use areas have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dBA CNEL with windows and doors closed. Most of the proposed outdoor land uses will be shielded from the building design providing ample space for outdoor activities. No mitigation is required for outdoor noise levels.

Typical construction provides approximately 20 dB of exterior to interior noise reduction. Therefore, assuming that air conditioning will be provided, allowing a windows closed condition, interior noise levels are not expected to exceed the County's interior noise standard of 45 dBA CNEL, but may exceed 45 dBA CNEL at interior rooms facing Merrill Avenue without the use of upgraded construction methods. A mitigation measure requiring that windows facing or with a line of sight to Merrill Avenue have an STC rating of at least 27. Noise levels at the proposed crisis facility would comply with the County of San Bernardino Development Code with the implementation of this measure. No further mitigation is required.

4. Operational Noise Impacts

Land uses surrounding the site consist of single-family detached residential dwelling units, industrial, and commercial uses. The nearest sensitive receptor is the single-family detached residential dwelling unit located approximately 10 feet to the east of the project site.

The County of San Bernardino Development Code Table 83-2 (see Table 6) prescribes stationary noise level limits for different land uses. Stationary noise sources associated with the proposed project may impact nearby residential land uses. The County prohibits the project from generating noise at residential land uses that exceeds 55 dBA Leq during the daytime and 45 dBA Leq during the nighttime.

A nosiest hour noise scenario was modeled utilizing the SoundPLAN model. Noise sources associated with the proposed parking areas and heating and air conditioning systems were included in the model.

Noise associated with parking lots include, but are not limited to idling cars/trucks, trucks, doors closing, and starting engine noise. The parking lot was modeled with 52 parking spaces during the peak hour. Heating and Air Conditioning Units were modeled based on the manufacturer's rating of a maximum sound power level of 74 dBA.

As shown on Figure 5, operational noise levels are expected to reach up to 43.8 dBA L_{eq} at the nearby sensitive receptors. Project operational noise contours are shown on Figure 6.

¹ Note 4 of Table 7 (Development Code Table 83-3) allows an exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

The proposed project does not provide emergency services. Therefore, transportation to and from the facility by emergency vehicles with sirens is not expected to occur. Occasionally, an emergency vehicle (an ambulance) may pick up a patient at the facility in need of emergency hospital treatment. Siren noise associated with emergency vehicles is expected to reach 88 dBA at a distance of 50 feet (Howard, Maddern and Privopoulos 2011) and will momentarily disturb sensitive receptors on the route to and nearby the proposed assisted care facility. Also, as with any other residential and/or medical land use, refuse vehicles are expected to visit the site on a weekly basis. Sensitive receptors may experience noise levels of up to 87 dBA (Daly, Standlee & Associates, Inc. 2003) at a distance of 50 feet for a few minutes a week. Although these events may be annoying for short periods, they will not violate applicable County noise standards. Further, emergency equipment, vehicles, and devices are exempt from the County's noise ordinance.

Consistency with Applicable Standards

County of San Bernardino General Plan Noise Element

***Goal N 1.** The County will abate and avoid excessive noise exposures through noise mitigation measures incorporated into the design of new noise generating and new noise sensitive land uses, while protecting areas within the County where the present noise environment is within acceptable limits.*

***Policy N 1.6.** Enforce the hourly noise-level performance standards for stationary and other locally regulated sources, such as industrial, recreational, and construction activities as well as mechanical and electrical equipment.*

County of San Bernardino Development Code

Section 83.01.080 of the County of San Bernardino Development Code establishes standards concerning acceptable noise levels for both noise sensitive land uses and for noise generating land uses. Sections of the code applicable to the proposed project are presented below.

City of Fontana General Plan Noise Element

***Goal 1.** Our City protects its sensitive land uses from excessive noise through diligent planning.*

City of Fontana Municipal Ordinance

Section 18-63 of the City of Fontana Municipal Code regulates actions which create loud, excessive, impulsive or intrusive sound or noise that annoys or disturbs persons of ordinary sensibilities from a distance of 50 feet or more from the edge of the property, structure or unit in which the source is located.

Summary of Operational Noise Impacts. As mentioned previously, exterior noise level limits for Stationary Sources, as they affect adjacent properties, (Section 83.01.080(c)(1) of San Bernardino County Code) are allowed to reach up to 55 dBA L_{eq}

during the daytime and 45 dBA L_{eq} during the nighttime. Project stationary noise sources at nearby sensitive receptors may result in noise levels of up to 43.8 dBA L_{eq} during the day. As shown on Figure 5, the proposed project is not expected to exceed the daytime or nighttime noise standard at nearby sensitive receptors. Further, project operational noise will not cause interior noise levels to exceed 45 dBA L_{eq} at any sensitive receptors. The project is consistent with applicable General Plan and development code standards, impacts are considered less than significant. No additional mitigation measures are required.

5. Industrial Noise Impacts to the Proposed Project

The adjacent existing land use to the west is a crane equipment rental company, Morrow Equipment Co. As per a call on December 1, 2016 to the company operations generally occur between the hours of 7:30 AM and 4:00 PM. Occasionally an outbound truck will leave the premises earlier than the stated hours; however, the loading of the equipment is done at an earlier time so that only the outbound truck would be taking place in the early morning hours. Therefore, it is expected that noise levels would include intermittent increases during movement of crane equipment and scheduled deliveries; however, these noise level increases would mainly occur during the hours of 7:30 AM to 4:00 PM.

As shown in Table 4, the ambient noise measurement taken on the project site to document existing noise levels that may be associated with the adjacent industrial use included noise levels that ranged from 52.2-55.7 dBA L_{eq} . As stated previously, this report is considering the proposed project as a hospital and/or as a residential land use as it is to provide 24-hour care and temporary lodging. The County of San Bernardino allows residential uses in areas where the noise levels reach up to 55 dBA L_{eq} in the daytime and 45 dBA L_{eq} in the nighttime, while the City of Fontana allows residential and hospital uses in areas where noise levels reach up to 65 and 70 dBA CNEL, respectively. The existing ambient noise measurements demonstrate that the adjacent industrial use does not create noise levels above the County of San Bernardino or the City of Fontana's standards for residential uses.

Consistency with Applicable Standards

County of San Bernardino General Plan Noise Element

***Goal N 1.** The County will abate and avoid excessive noise exposures through noise mitigation measures incorporated into the design of new noise generating and new noise sensitive land uses, while protecting areas within the County where the present noise environment is within acceptable limits.*

County of San Bernardino Development Code

Section 83.01.080 of the County of San Bernardino Development Code establishes standards concerning acceptable noise levels for both noise sensitive land uses and for noise generating land uses. Sections of the code applicable to the proposed project are presented below.

City of Fontana General Plan Noise Element

Goal 1. Our City protects its sensitive land uses from excessive noise through diligent planning.

Goal 3: Our City's residents are protected from the negative effects of "spill over" noise in our community.

City of Fontana Municipal Ordinance

Section 18-63 of the City of Fontana Municipal Code regulates actions which create loud, excessive, impulsive or intrusive sound or noise that annoys or disturbs persons of ordinary sensibilities from a distance of 50 feet or more from the edge of the property, structure or unit in which the source is located.

Summary of Operational Noise Impacts. The adjacent industrial land use may cause intermittent noise level increases at the proposed project during the movement of and delivery of crane equipment. These noise level increases would generally occur during the daytime between the hours of 7:30 AM and 4:00 PM. As depicted by the long-term noise measurement, ambient noise levels indicate that the existing industrial use would not cause noise levels above the County of San Bernardino or City of Fontana noise standards for residential uses. No mitigation is required.

B. Vibration Impacts

There are several types of construction equipment that can cause vibration levels high enough to annoy persons in the vicinity and/or result in architectural or structural damage to nearby structures and improvements. For example, a vibratory roller, could generate up to 0.21 PPV at a distance of 25 feet; and operation of a large bulldozer could generate up to 0.089 PPV at a distance of 25 feet (two of the most vibratory pieces of construction equipment). Groundborne vibration at sensitive receptors associated with this equipment would drop off as the equipment moves away. For example, as the vibratory roller moves further than 100 feet from the sensitive receptors, the vibration associated with it would drop below 0.0026 PPV. It should be noted that these vibration levels are reference levels and may vary slightly depending upon soil type and specific usage of each piece of equipment.

Annoyance to Persons

The primary effect of perceptible vibration is often a concern. However, secondary effects, such as the rattling of a china cabinet, can also occur, even when vibration levels are well below perception. Any effect (primary perceptible vibration, secondary effects, or a combination of the two) can lead to annoyance. The degree to which a person is annoyed depends on the activity in which they are participating at the time of the disturbance. For example, someone sleeping or reading will be more sensitive than someone who is running on a treadmill. Reoccurring primary and secondary vibration effects often lead people to believe that the vibration is damaging their home, although vibration levels are well below minimum thresholds for damage potential.

As shown in Table 2 vibration can be annoying to people in buildings at a peak particle velocity (PPV) of 0.20. Due to the proximity of adjacent single-family detached residential dwelling units (as close as ten-feet), project construction activities within 100 feet of the dwelling unit may result in groundborne vibration that is annoying. Annoyance is expected to be short-term, occurring only during site grading and preparation. Mitigation measures to reduce potential impacts related to annoyance are presented in Section VII of this report.

Architectural Damage

Vibration generated by construction activity has the potential to damage structures. This damage could be structural damage, such as cracking of floor slabs, foundations, columns, beams, or walls, or cosmetic architectural damage, such as cracked plaster, stucco, or tile.

Table 2 identifies PPV levels between 0.4 and 0.6 as vibration levels greater than normally expected from traffic, but may cause "architectural" damage and possible minor structural damage. Hence, use of vibratory equipment within 25 feet of adjacent residential dwelling units and improvements could result in architectural damage. Caution should be utilized if vibratory equipment is utilized within 25 feet of existing structures or improvements. Mitigation measures to reduce potential impacts to residential dwelling units are presented in Section VII of this report.

Consistency with Applicable Standards

County of San Bernardino

Section 83.01.090(a) of the County of San Bernardino Development Code prohibits the creation of ground vibration that can be felt without the aid of instruments at or beyond the lot-line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to two-tenths (0.2) inches per second measured at or beyond the lot-line.

As discussed above construction activities may be annoying to receptors up to 100 feet from vibratory equipment. Construction of the proposed project is exempt from this standard if it takes place between 7:00 AM and 7:00 PM, and not on Sundays or Federal holidays. Impacts related to annoyance would not be significant.

City of Fontana Ordinance

Section 30-259 of the City of Fontana Ordinance prohibits *activities that cause vibration which can be felt beyond the property line of any residentially zoned property with or without the aid of an instrument.*

As discussed above construction activities may be annoying to receptors up to 100 feet from vibratory equipment. Mitigation measures to reduce potential impacts related to annoyance are presented in Section VII of this report. Adherence to County of San Bernardino's allowed hours for construction will further minimize ground vibration noise impacts related to construction at adjacent sensitive receptors.

Table 8

Typical Construction Equipment Noise Levels¹

Type of Equipment	Range of Maximum Sound Levels Measured (dBA at 50 feet)	Suggested Maximum Sound Levels for Analysis (dBA at 50 feet)
Rock Drills	83-99	96
Jack Hammers	75-85	82
Pneumatic Tools	78-88	85
Pumps	74-84	80
Dozers	77-90	85
Scrapers	83-91	87
Haul Trucks	83-94	88
Cranes	79-86	82
Portable Generators	71-87	80
Rollers	75-82	80
Tractors	77-82	80
Front-End Loaders	77-90	86
Hydraulic Backhoe	81-90	86
Hydraulic Excavators	81-90	86
Graders	79-89	86
Air Compressors	76-89	86
Trucks	81-87	86

¹ Source: Bolt, Beranek & Newman; Noise Control for Buildings and Manufacturing Plants 1987.

Table 9

Buildout Noise Contours (dBA CNEL)¹

Roadway	Distance to Contour (feet)		
	70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
Merrill Avenue	67	211	666

¹ Exterior noise levels calculated 5-feet above pad elevation, perpendicular to subject roadway.

Figure 5.

Operational Noise Levels (Leq)



Signs and symbols

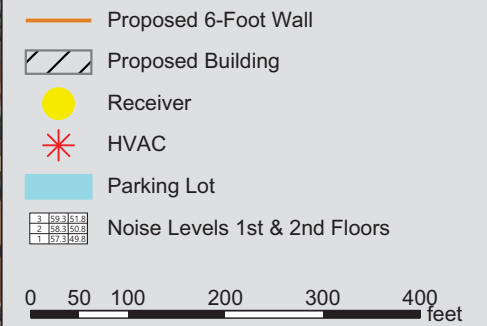




Figure 6.

Operational Noise Level Contours (Leq)

Signs and symbols

- Proposed 6-Foot Wall
- / Proposed Building
- ✱ HVAC
- Parking Lot
- | | | |
|---|------|------|
| 3 | 59.3 | 51.8 |
| 2 | 58.3 | 50.9 |
| 1 | 57.3 | 49.9 |

 Noise Levels 1st & 2nd Floors

Levels in dB(A)

- <= 50
- 50 - 55
- 55 - 60
- 60 - 65
- > 65

0 50 100 200 300 400 feet

VII. MITIGATION MEASURES

A. Construction Mitigation Measures

In addition to adherence to the County of San Bernardino policies found in the Noise Element and Development Code limiting the construction hours of operation, the following measures are recommended to reduce construction noise and vibrations, emanating from the proposed project:

1. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.
2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.
3. Equipment shall be shut off and not left to idle when not in use.
4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.
5. The project proponent shall mandate that the construction contractor prohibit the use of music or sound amplification on the project site during construction.
6. The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment.

B. Vibration Mitigation Measures

1. The contractor shall limit the use of heavy equipment or vibratory rollers and soil compressors along the project boundaries to the greatest degree possible.
2. The contractor shall notify owners of potentially affected sensitive receptors regarding the potential for architectural damage and provide them with a contact number to report suspected damage. The homeowners shall also be notified of the intent to conduct pre- and post-construction surveys of their homes, in order to document any existing damage and to identify any new damage that may occur as a result of project construction.

The contractor shall be responsible for arranging rights-of-entry to private properties in order to engage in condition surveys and vibration monitoring. In some instances, homeowners will prefer that their homes not be surveyed. This is usually for the sake of the owners' privacy, and a notation should be made for that structure as to the time and date, the specific comment made and the person who made it.

3. Pre-construction surveys shall be conducted by an acoustic or geotechnical engineer to record all existing defects in the affected structures. Observations shall be documented by taking actual measurements, sketches, photographs, and any other data the preparer may deem appropriate. On some occasions, a homeowner may terminate a preconstruction survey before it is complete. Again, the survey should be annotated accordingly.
4. An acoustic or geotechnical engineer shall monitor vibrations at affected structure(s) to protect it (them) from vibration induced damage while construction equipment is operating within 25 feet of a structure or improvement. PPV levels shall be determined by a qualified expert in the field of vibration monitoring. In no case shall the PPV level exceed 0.2 inches/second as measured at or in very close proximity to the monitored structure. An alarmed monitoring system shall signal any vibration event that equals or exceeds a threshold of 80% of the PPV limit. Work shall immediately cease if the alarm at any of the affected structures indicates the threshold is exceeded. Alternative construction methods will be used if the PPV Limit is exceeded.
5. An acoustic or geotechnical engineer shall conduct a post-construction survey, determine if any structural changes are the result of the construction activity.
6. The acoustic or geotechnical engineer shall prepare a report summarizing the results and recommended measures to be taken as a result of compliance with these Mitigation Measures.

C. **Operational Mitigation Measures**

1. Windows facing or with a line of sight of Merrill Avenue are required to have an STC rating of at least 27.

VIII. REFERENCES

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2009 Requirements for determining and mitigating traffic noise impacts to residential structures. Department of Health – Office of Industrial Hygiene

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2016 Fontana Crisis Residential Treatment Facility (7N25) Traffic Impact Analysis.

APPENDICES

Appendix A – List of Acronyms

Appendix B – Definitions of Acoustical Terms

Appendix C – Noise Monitoring Field Worksheets

Appendix D – RCNM Noise Modeling Output

Appendix E – Project Generated Traffic FHWA Worksheets

APPENDIX A

List of Acronyms

Term	Definition
ADT	Average Daily Traffic
ANSI	American National Standard Institute
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
D/E/N	Day / Evening / Night
dB	Decibel
dBA or dB(A)	Decibel "A-Weighted"
dBA/DD	Decibel per Double Distance
dBA L_{eq}	Average Noise Level over a Period of Time
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
$L_{02}, L_{08}, L_{50}, L_{90}$	A-weighted Noise Levels at 2 percent, 8 percent, 50 percent, and 90 percent, respectively, of the time period
L_{dn}	Day-Night Average Noise Level
$L_{eq(x)}$	Equivalent Noise Level for "'x" period of time
L_{eq}	Equivalent Noise Level
L_{max}	Maximum Level of Noise (measured using a sound level meter)
L_{min}	Minimum Level of Noise (measured using a sound level meter)
LOS C	Level of Service C
OPR	California Governor's Office of Planning and Research
PPV	Peak Particle Velocities
RCNM	Road Construction Noise Model
REMEL	Reference Energy Mean Emission Level
RMS	Root Mean Square

APPENDIX B

Definitions of Acoustical Terms

Term	Definition
Decibel, dB	A logarithmic unit of noise level measurement that relates the energy of a noise source to that of a constant reference level; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hertz	In a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., the number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear.
Root Mean Square (RMS)	A measure of the magnitude of a varying noise source quantity. The name derives from the calculation of the square root of the mean of the squares of the values. It can be calculated from either a series of lone values or a continuous varying function.
Fast/Slow Meter Response	The fast and slow meter responses are different settings on a sound level meter. The fast response setting takes a measurement every 100 milliseconds, while a slow setting takes one every second.
L_{02} , L_{08} , L_{50} , L_{90}	The A-weighted noise levels that are equaled or exceeded by a fluctuating sound level, 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period, respectively.
Equivalent Continuous Noise Level, L_{eq}	A level of steady state sound that in a stated time period, and a stated location, has the same A-weighted sound energy as the time-varying sound.
L_{max} , L_{min}	L_{max} is the RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval, using fast meter response. L_{min} is the minimum level.
Ambient Noise Level	The all-encompassing noise environment associated with a given environment, at a specified time, usually a composite of sound from many sources, at many directions, near and far, in which usually no particular sound is dominant.
Offensive/ Offending/ Intrusive Noise	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of sound depends on its amplitude, duration, frequency, and time of occurrence, and tonal information content as well as the prevailing ambient noise level.

APPENDIX C

Noise Monitoring Field Worksheets

Noise Measurement
Field Data

Project Name:	Fontana Crisis Residential Treatment Facility (7N25) - Noise			Date:	21-Nov-16		
Project #:	6772a						
Noise Measurement #:	NM1	3099 LxT_Data.109	.xlsx	Technician:	Ian Edward Gallagher		
Nearest Address or Cross Street:	Redwood Ave & Merrill Ave						
Site Description (Type of Existing Land Use and any other notable features)	Site empty lot, shrub/grass land. Surrounding:residential / commercial						
Weather:	Partly cloudy/ clear skies, patchy sunshine, occasional light rain.			Settings:	<div><div>SLOW</div><div>FAST</div></div> (Circle one)		
Temperature:	62 deg F	Wind:	calm - 2mph	Humidity:	67%	Terrain:	FLAT
Start Time:	3:19 PM	End Time:	3:29 PM	Run Time:	10 MIN		
Leq:	58.7 dB	Primary Noise Source:	Traffic along Redwood Ave & Merrill Ave				
Lmax	75.9 dB						
L2	66.4 dB	Secondary Noise Sources:	Barking dogs, crane operating immediately to the West of site, truck repair shop				
L8	60.4 dB		operating immediately to the North of site.				
L25	57.5 dB		Train horn heard, commercial planes passing overhead.				
L50	55.3 dB		Residential ambiance.				
NOISE METER:	SoundTrack LxT Class 1			CALIBRATOR:	Larson Davis CAL250 Acoustic Calibrator		
MAKE:	Larson Davis			MAKE:	Larson Davis		
MODEL:	LxT1			MODEL:	Cal250		
SERIAL NUMBER:	3099			SERIAL NUMBER:	2723		
FACTORY CALIBRATION DATE:	11/4/2014			FACTORY CALIBRATION DATE:	11/3/2014		
FIELD CALIBRATION DATE:	11/21/2016						

Noise Measurement
Field Data

Additional Notes/Sketch



Looking North towards Merrill Ave



Looking South

Summary				
File Name	LxT_Data.109			
Serial Number	0003099			
Model	SoundTrack LxT®			
Firmware Version	2.301			
User	Ian Edward Gallagher			
Location	6772a NM1 Redwood Ave & Merrill Ave			
Job Description	10 Minute Sound Sample			
Note				
Measurement Description				
Start	2016-11-21	15:19:06		
Stop	2016-11-21	15:29:06		
Duration	00:10:00.0			
Run Time	00:10:00.0			
Pause	00:00:00.0			
Pre Calibration	2016-11-21	15:18:35		
Post Calibration	None			
Calibration Deviation	---			
Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRMLxT1L			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Overload	121.3 dB			
Results			Statistics	
LAeq		58.7 dB	LAS2.00	66.4 dB
LAE		86.5 dB	LAS8.00	60.4 dB
EA		49.551 µPa²h	LAS25.00	57.5 dB
EA8		2.378 mPa²h	LAS50.00	55.3 dB
EA40		11.892 mPa²h	LAS66.60	54.2 dB
LZpeak (max)	2016-11-21	15:24:05	101.8 dB	LAS90.00 51.5 dB
LASmax	2016-11-21	15:23:23	75.9 dB	
LASmin	2016-11-21	15:25:25	48.8 dB	
SEA	-99.9 dB			
LCeq	68.2 dB			
LAeq	58.7 dB			
LCeq - LAeq	9.5 dB			
LAlaq	64.9 dB			
LAeq	58.7 dB			
LAlaq - LAeq	6.2 dB			
# Overloads	0			

Noise Measurement
Field Data

Project Name:	Fontana Crisis Residential Treatment Facility (7N25) - Noise			Date:	21-Nov-16		
Project #:	6772a						
Noise Measurement #:	NM2	3099 LxT_Data.110	.xlsx	Technician:	Ian Edward Gallagher		
Nearest Address or Cross Street:	Redwood Ave & Orchid Ave						
Site Description (Type of Existing Land Use and any other notable features)	Site empty lot, shrub/grass land. Surrounding:residential / commercial						
Weather:	Partly cloudy/ clear skies, patchy sunshine, occasional light rain.			Settings:	<div><div>SLOW</div><div>FAST</div></div> (Circle one)		
Temperature:	62 deg F	Wind:	calm - 2mph	Humidity:	67%	Terrain:	FLAT
Start Time:	3:44 PM	End Time:	3:54 PM	Run Time:	10 MIN		
Leq:	56.4 dB	Primary Noise Source:	Traffic along Redwood Ave & Merrill Ave				
Lmax	67.5 dB						
L2	63.3 dB	Secondary Noise Sources:	Barking dogs, crane operating immediately to the West of site, truck repair shop				
L8	60.2 dB		operating immediately to the North of site.				
L25	56.8 dB		Train horn heard, commercial planes passing overhead.				
L50	54.7 dB		Residential ambiance.				
NOISE METER:	SoundTrack LxT Class 1			CALIBRATOR:	Larson Davis CAL250 Acoustic Calibrator		
MAKE:	Larson Davis			MAKE:	Larson Davis		
MODEL:	LxT1			MODEL:	Cal250		
SERIAL NUMBER:	3099			SERIAL NUMBER:	2723		
FACTORY CALIBRATION DATE:	11/4/2014			FACTORY CALIBRATION DATE:	11/3/2014		
FIELD CALIBRATION DATE:	11/21/2016						

Noise Measurement
Field Data

Additional Notes/Sketch



Looking North towards Merrill Ave



Looking South

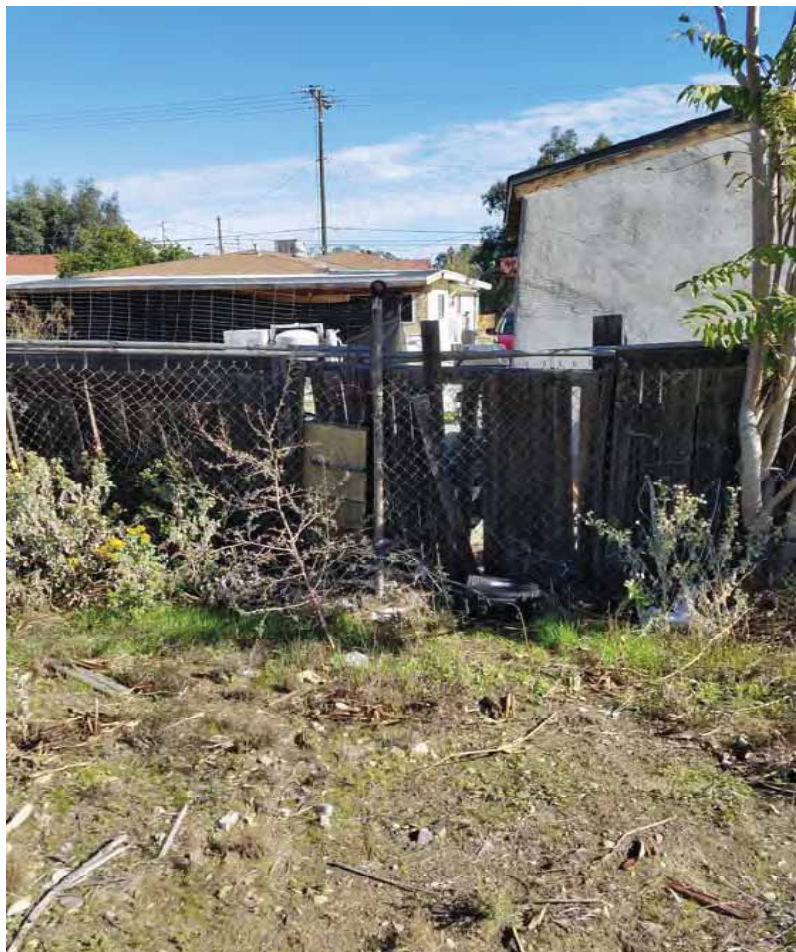
Summary				
File Name	LxT_Data.110			
Serial Number	0003099			
Model	SoundTrack LxT®			
Firmware Version	2.301			
User	Ian Edward Gallagher			
Location	6772a NM2	Redwood Ave & Orchid Ave		
Job Description	10 Minute Sound Sample			
Note				
Measurement Description				
Start	2016-11-21	15:44:04		
Stop	2016-11-21	15:54:04		
Duration	00:10:00.0			
Run Time	00:10:00.0			
Pause	00:00:00.0			
Pre Calibration	2016-11-21	15:43:42		
Post Calibration	None			
Calibration Deviation	---			
Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRMLxT1L			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Overload	121.3 dB			
Results			Statistics	
LAeq		56.4 dB	LAS2.00	63.3 dB
LAE		84.2 dB	LAS8.00	60.2 dB
EA		29.316 µPa²h	LAS25.00	56.8 dB
EA8		1.407 mPa²h	LAS50.00	54.7 dB
EA40		7.036 mPa²h	LAS66.60	53.1 dB
LZpeak (max)	2016-11-21	15:52:22	92.4 dB	LAS90.00 49.2 dB
LASmax	2016-11-21	15:49:02	67.5 dB	
LASmin	2016-11-21	15:45:16	46.5 dB	
SEA		-99.9 dB		
LCeq		65.9 dB		
LAeq		56.4 dB		
LCeq - LAeq		9.4 dB		
LAleq		60.4 dB		
LAeq		56.4 dB		
LAleq - LAeq		3.9 dB		
# Overloads		0		

Noise Measurement
Field Data

Project Name:	Fontana Crisis Residential Treatment Facility (7N25) - Noise			Date:	1-Dec-16	
Project #:	6772a					
Noise Measurement #:	LTNM1	3099 LxT_Data.114	.xlsx	Technician:	Catherine Howe	
Nearest Address or Cross Street:	Redwood Ave & Merrill Ave					
Site Description (Type of Existing Land Use and any other notable features)	Site empty lot, shrub/grass land. Surrounding: residential / commercial					
Weather:	Partly cloudy/ clear skies, patchy sunshine, occasional light rain.			Settings:	<div><div>SLOW</div><div>FAST</div></div> (Circle one)	
Temperature:	40 - 67 deg F	Wind:	calm - 12 mph	Humidity:	41-61%	
		Terrain:	FLAT			
Start Time:	1:00 PM	30-Nov-16	End Time:	6:00 PM	1-Dec-16	
			Run Time:	5 x 1 Hours		
Leq:	54.1 dB	Primary Noise Source:	Traffic along Redwood Ave & Merrill Ave			
Lmax	74.8 dB					
L2	60.2 dB	Secondary Noise Sources:	Barking dogs, crane operating immediately to the West of site, truck repair shop			
L8	57.1 dB		operating immediately to the North of site.			
L25	54.6 dB		Commercial planes passing overhead.			
L50	52.6 dB		Residential ambiance.			
NOISE METER:	SoundTrack LxT Class 1		CALIBRATOR:	Larson Davis CAL250 Acoustic Calibrator		
MAKE:	Larson Davis		MAKE:	Larson Davis		
MODEL:	LxT1		MODEL:	Cal250		
SERIAL NUMBER:	3099		SERIAL NUMBER:	2723		
FACTORY CALIBRATION DATE:	11/4/2014		FACTORY CALIBRATION DATE:	11/3/2014		
FIELD CALIBRATION DATE:	12/1/2016					

Noise Measurement
Field Data

Additional Notes/Sketch



Summary					
File Name	LxT_Data.114				
Serial Number	0003099				
Model	SoundTrack LxT®				
Firmware Version	2.301				
User	Catherine Howe				
Location	6772a LTNM1				
Job Description	5 Hour Noise Sample				
Note					
Measurement Description					
Start	2016-11-30	12:04:10			
Stop	2016-11-30	18:41:08			
Duration	06:11:22.2				
Run Time	06:11:22.2				
Pause	00:00:00.0				
Pre Calibration	2016-11-30	10:24:49			
Post Calibration	None				
Calibration Deviation	---				
Overall Settings					
RMS Weight	A Weighting				
Peak Weight	A Weighting				
Detector	Slow				
Preamp	PRMLxT1L				
Microphone Correction	Off				
Integration Method	Linear				
OBA Range	High				
OBA Bandwidth	1/1 and 1/3				
OBA Freq. Weighting	A Weighting				
OBA Max Spectrum	Bin Max				
Overload	121.3 dB				
Results			Statistics		
LAeq		54.1 dB	LAS2.00	60.2 dB	
LAE		97.6 dB	LAS8.00	57.1 dB	
EA		633.261 µPa²h	LAS25.00	54.6 dB	
EA8		818.498 µPa²h	LAS50.00	52.6 dB	
EA40		4.092 mPa²h	LAS90.00	48.4 dB	
LApeak (max)	2016-11-30	17:41:35	94.3 dB	LAS99.00	46.0 dB
LASmax	2016-11-30	16:12:33	74.8 dB		
LASmin	2016-11-30	15:38:19	42.6 dB		
SEA	-99.9 dB				
LCeq	66.4 dB				
LAeq	54.1 dB				
LCeq - LAeq	12.3 dB				
LALeq	56.8 dB				
LAeq	54.1 dB				
LALeq - LAeq	2.7 dB				
# Overloads	0				

Record #	Date	Time	Run Duration	LAeq	LASmin	LASmax	LAS2.00	LAS8.00	LAS25.00	LAS50.00	LAS90.00	LAS99.00
1	2016-11-30	12:04:10	00:00:13.8	50.5	46.6	52.9	52.8	52.5	51.8	49.3	47.2	46.6
2	2016-11-30	12:30:00	00:30:00.0	52.0	43.5	67.3	58.3	55.2	52.4	49.9	46.3	44.9
3	2016-11-30	13:00:00	01:00:00.0	52.2	43.0	68.0	58.9	55.2	52.5	50.4	47.6	45.9
4	2016-11-30	14:00:00	01:00:00.0	53.1	45.0	69.0	59.8	55.7	52.9	50.8	48.2	46.5
5	2016-11-30	15:00:00	01:00:00.0	53.6	42.6	69.6	59.7	56.8	54.0	51.9	48.8	46.1
6	2016-11-30	16:00:00	01:00:00.0	55.4	46.3	74.8	62.1	58.4	55.5	53.5	49.4	47.3
7	2016-11-30	17:00:00	01:00:00.0	55.7	50.1	72.5	60.7	57.9	56.1	54.8	52.6	51.0
8	2016-11-30	18:00:00	00:41:08.4	54.4	47.9	65.3	58.9	56.7	55.0	53.7	51.7	49.3

APPENDIX D

RCNM Noise Modeling Output

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/21/2016

Case Description: 6772a Fontana Crisis Stabilization Unit Facility (7N25)

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residential	Residential	65	65	45

Equipment

Description	Impact	Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	No	40	85		35	0
Backhoe	No	No	40		77.6	115	0
Dump Truck	No	No	40		76.5	190	0
Backhoe	No	No	40		77.6	250	0

Calculated (dBA)

Results

Equipment	*Lmax	Leq	Day Lmax
Grader	88.1	84.1	N/A
Backhoe	70.3	66.3	N/A
Dump Truck	64.9	60.9	N/A
Backhoe	63.6	59.6	N/A
Total	88.1	84.2	N/A

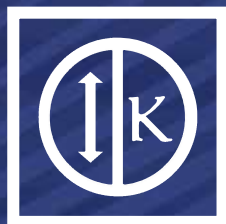
*Calculated Lmax is the Loudest value.

APPENDIX E

**Project Generated Traffic
FHWA Worksheets**

Buildout Traffic Noise CNEL Contours Merrill Avenue

	DAYTIME			EVENING			NIGHTTIME			ADT	20700.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	211.00
INPUT PARAMETERS											
Vehicles per hour	1269.52	15.39	6.04	938.20	2.76	2.76	235.00	20.31	8.05	% A	97.40
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	% MT	1.84
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	% HT	0.74
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	LEFT	-90.00
										RIGHT	90.00
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	CNEL	65.00
ADJUSTMENTS										DAY LEQ	61.57
Flow	24.71	5.55	1.48	23.40	-1.93	-1.91	17.38	6.75	2.73		
Distance	-6.32	-6.32	-6.32	-6.32	-6.32	-6.32	-6.32	-6.32	-6.32	Day hour	89.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Absorbtive?	no
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	Use hour?	no
LEQ	60.75	50.54	51.32	59.43	43.06	47.92	53.42	51.74	52.57	GRADE dB	0.00
DAY LEQ		61.57	EVENING LEQ			59.82	NIGHT LEQ		57.40		
CNEL		65.00									



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KUNZMAN ASSOCIATES, INC.

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December 1, 2016

Ms. Shelah Riggs, Senior Regulatory Specialist
DUDEK & ASSOCIATES, INC.
1650 Spruce Street, Suite 240
Riverside, CA 92507

Dear Ms. Riggs:

INTRODUCTION

The firm of Kunzman Associates, Inc. is pleased to provide this trip generation analysis for the Fontana Crisis Residential Treatment Facility (7N25) project in the County of San Bernardino.

This report summarizes our methodology, analysis, and findings. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to transportation engineering, a glossary of terms is provided within Appendix A.

PROJECT DESCRIPTION

The approximately 2.35 acre site is located south of Merrill Avenue and west of Redwood Avenue in the Fontana area of San Bernardino County (see Figure 1). It is proposed to be developed with an 11,102 square foot crisis residential treatment facility (see Figure 2).

CRISIS RESIDENTIAL TREATMENT FACILITY DESCRIPTION

Crisis residential treatment facilities specialize in providing crisis intervention for individuals diagnosed with co-occurring substance use and mental health disorders. Services include mental health assessments, treatment plan development, crisis intervention, medication support services, and individual and group therapy for individuals diagnosed with co-occurring substance use and mental health disorders. The facilities operate 24 hours a day, seven days a week, 365 days a year and provide a type of care that is a diversion from more expensive acute in-patient care to County residents in crisis.

The crisis residential treatment's target population includes local County residents ages 18 and older, experiencing acute psychiatric crisis who will benefit from short-term crisis residential treatment services as an alternative to hospitalization or incarceration. This includes individuals who are at risk of danger to themselves and/or others, and who normally seek inpatient hospitalization, but would benefit from a lower, less restrictive level of care. The Department of Behavioral Health will work closely with law enforcement to understand any existing or pending criminal cases and records of potential patients.

No patients with a history of violent or sexual crimes will be admitted to the crisis residential treatment facility to ensure the safety of other patients and staff. Although the crisis residential treatment program is voluntary, an appropriate aftercare plan will be prepared from the first day of admittance and there will be no discharge of patients to the street. All patients will be transported to a mutually agreed upon location, such as their residence, hospital, or to family, at their time of discharge.

TRIP GENERATION

A specific trip generation has been calculated for the crisis residential treatment facility land use. This trip generation is based on information from the Department of Behavioral Health, Kunzman Associates, Inc. understanding of the operations of these facilities, and engineering judgment.

The project is projected to have the ability to house up to twenty (20) patients. The project is projected to have a maximum staff of twenty-five (25) employees. For purposes of this analysis, the facility is assumed to be fully occupied with the maximum number of employees at all times. This is not likely and is conservative.

To calculate the daily vehicle trips, the number of potential patients, patient type, patient visitors, patient transportation, deliveries, employees, and employee lunch breaks have been considered. Once that is computed, the trips are then multiplied by two to create the inbound and outbound total trips.

To calculate the morning peak hour, twenty (20) percent of the daily trips are assumed to occur. Of those trips, eighty (80) percent are assumed to enter the site and twenty (20) percent are assumed to exit the site.

To calculate the evening peak hour, twenty (20) percent of the daily trips are assumed to occur. Of those trips, twenty (20) percent are assumed to enter the site and eighty (80) percent are assumed to exit the site.

The project site is projected to generate a maximum of approximately 98 daily vehicle trips, 20 of which will occur during the morning peak hour and 20 of which will occur during the evening peak hour (see table 1).

INTERSECTION ANALYSIS REQUIREMENT THRESHOLDS

In the County of San Bernardino, a traffic impact analysis is not needed if the proposed project generates less than 100 peak hour vehicle trips.

NEED FOR TRAFFIC IMPACT ANALYSIS

Based on the intersection analysis threshold for the San Bernardino County, a traffic impact analysis is not required for the proposed Fontana Crisis Residential Treatment Facility (7N25) project.

Ms. Shelah Riggs, Senior Regulatory Specialist
DUDEK & ASSOCIATES, INC.
December 1, 2016

CONCLUSIONS

1. The approximately 2.35 acre site is located south of Merrill Avenue and west of Redwood Avenue in the Fontana area of San Bernardino County.
2. The project site is proposed to be developed with an 11,102 square foot crisis residential treatment facility with the ability to house twenty (20) patients.
3. The project site is projected to generate a maximum of approximately 98 daily vehicle trips, 20 of which will occur during the morning peak hour and 20 of which will occur during the evening peak hour.
4. In the County of San Bernardino, a traffic impact analysis is not needed if the proposed project generates less than 100 peak hour vehicle trips.
5. Based on the intersection analysis threshold for the San Bernardino County, a traffic impact analysis is not required for the proposed Fontana Crisis Residential Treatment Facility (7N25) project.

It has been a pleasure to service your needs on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 973-8383.

Sincerely,

KUNZMAN ASSOCIATES, INC.

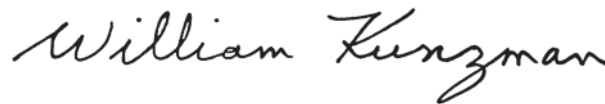


Robert Kunzman
Principal Associate

JN 6772



KUNZMAN ASSOCIATES, INC.



William Kunzman, P.E.
Principal

Table 1
Project Trip Generation¹

Quantity					Trips Per Day Per Bed				Trips Per Day		Trips							Vehicle Trips Per Day		Peak Hours						Daily
Beds			Staff Maximum	Deliveries	Patient Transportation		Patient Visitors		Employee	Delivery	Patient Transportation		Patient Visitors		Employee	Delivery	Total	One Way	Two Way	Morning ²			Evening ³			
CRT	CSU	Total			CRT	CSU	CRT	CSU			CRT	CSU	CRT	CSU						Inbound	Outbound	Total	Inbound	Outbound	Total	
10	10	20	25	2	1	0.25	0.25	0	1.25	1	10	3	3	0	31	2	49	49	98	16	4	20	4	16	20	

¹A specific trip generation has been calculated for the Crisis Residential Treatment Facility land use. This trip generation is based on information from the Department of Behavioral Health, Kunzman Associates, Inc. understanding of the operations of these facilities, and engineering judgment.

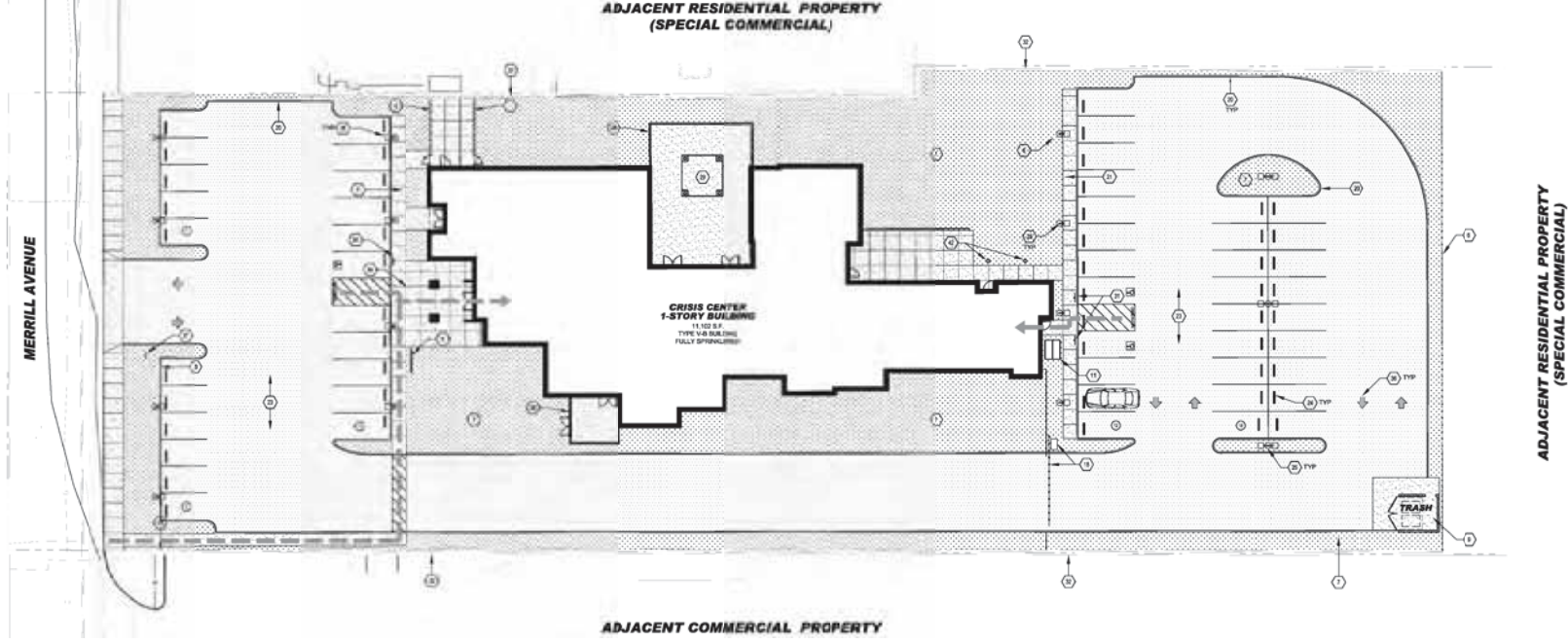
²To calculate the morning peak hour, twenty (20) percent of the daily trips are assumed to occur. Of those trips, eighty (80) percent are assumed to enter the site and twenty (20) percent are assumed to exit the site.

³To calculate the evening peak hour, twenty (20) percent of the daily trips are assumed to occur. Of those trips, twenty (20) percent are assumed to enter the site and eighty (80) percent are assumed to exit the site.

Figure 1
Project Location Map



Figure 2
Site Plan



APPENDIX A

GLOSSARY OF TRANSPORTATION TERMS

GLOSSARY OF TRANSPORTATION TERMS

COMMON ABBREVIATIONS

AC:	Acres
ADT:	Average Daily Traffic
Caltrans:	California Department of Transportation
DU:	Dwelling Unit
ICU:	Intersection Capacity Utilization
LOS:	Level of Service
TSF:	Thousand Square Feet
V/C:	Volume/Capacity
VMT:	Vehicle Miles Traveled

TERMS

AVERAGE DAILY TRAFFIC: The total volume during a year divided by the number of days in a year. Usually only weekdays are included.

BANDWIDTH: The number of seconds of green time available for through traffic in a signal progression.

BOTTLENECK: A constriction along a travelway that limits the amount of traffic that can proceed downstream from its location.

CAPACITY: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

CHANNELIZATION: The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

CLEARANCE INTERVAL: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

CORDON: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

CYCLE LENGTH: The time period in seconds required for one complete signal cycle.

CUL-DE-SAC STREET: A local street open at one end only, and with special provisions for turning around.

DAILY CAPACITY: The daily volume of traffic that will result in a volume during the peak hour equal to the capacity of the roadway.

DELAY: The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

DEMAND RESPONSIVE SIGNAL: Same as traffic-actuated signal.

DENSITY: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

DETECTOR: A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

DESIGN SPEED: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

DIRECTIONAL SPLIT: The percent of traffic in the peak direction at any point in time.

DIVERSION: The rerouting of peak hour traffic to avoid congestion.

FORCED FLOW: Opposite of free flow.

FREE FLOW: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

GAP: Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

HEADWAY: Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

INTERCONNECTED SIGNAL SYSTEM: A number of intersections that are connected to achieve signal progression.

LEVEL OF SERVICE: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

LOOP DETECTOR: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

MINIMUM ACCEPTABLE GAP: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

MULTI-MODAL: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

OFFSET: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

PLATOON: A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

ORIGIN-DESTINATION SURVEY: A survey to determine the point of origin and the point of destination for a given vehicle trip.

PASSENGER CAR EQUIVALENTS (PCE): One car is one Passenger Car Equivalent. A truck is equal to 2 or 3 Passenger Car Equivalents in that a truck requires longer to start, goes slower, and accelerates slower. Loaded trucks have a higher Passenger Car Equivalent than empty trucks.

PEAK HOUR: The 60 consecutive minutes with the highest number of vehicles.

PRETIMED SIGNAL: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

PROGRESSION: A term used to describe the progressive movement of traffic through several signalized intersections.

SCREEN-LINE: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

SIGNAL CYCLE: The time period in seconds required for one complete sequence of signal indications.

SIGNAL PHASE: The part of the signal cycle allocated to one or more traffic movements.

STARTING DELAY: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through a signalized intersection.

TRAFFIC-ACTUATED SIGNAL: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

TRIP: The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

TRIP-END: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

TRIP GENERATION RATE: The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

TRUCK: A vehicle having dual tires on one or more axles, or having more than two axles.

UNBALANCED FLOW: Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

VEHICLE MILES OF TRAVEL: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.